"Tar", "Nicotine", and Carbon Monoxide Values

June 15, 1990

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
	311,701,		
*Alpine KFMSP	17.0±0.3	1.14±0.02	16.0 ± 0.3
*Alpine 100s 100FMSP	15.4±0.3	1.13 ± 0.02	14.6±0.3
Alnine Lights KFMSP	9.3±0.2	0.74 ± 0.02	10.6 ± 0.2
Alpine Lights KFMSPAlpine Lights 100's 100FMSP	9.5±0.1	0.78 ± 0.01	11.2 ± 0.2
American Filter King KFSP	16.4±0.2	1.15 ± 0.01	14.5 ± 0.3
American Filter 100's 100FSP	16.4±0.2	1.21 ± 0.02	14.5 ± 0.3
American Lights KFSP		0.91 ± 0.01	12.7±0.2
American Lights 100's 100FSP		0.97 ± 0.02	13.2±0.4
Belair KFMSP	10.5±0.2	0.82 ± 0.02	9.6±0.2
Belair 100's 100FMSP		0.62 ± 0.01	8.7±0.2
Benson & Hedges KFHP		1.25±0.03	12.5±0.4
Benson & Hedges 100's 100FHP		1.22±0.02	15.3±0.2
Benson & Hedges 100's 100FMHP		1.21 ± 0.02	15.6±0.3
Benson & Hedges 100's 100FSP		1.24 ± 0.02	16.8±0.3
Benson & Hedges 100's 100FMSP		1.16±0.02	15.9±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHH		0.48 ± 0.01	6.6±0.2
Benson & Hedges Deluxe Ultra Lights 100's 100FM Benson & Hedges Deluxe Ultra Lights 100's 100FM		0.47±0.01	6.8±0.2
		0.85 ± 0.02	11.6±0.4
Benson & Hedges Lights 100's 100FHP		0.80 ± 0.02	11.5±0.4
Benson & Hedges Lights 100's 100FMHP		0.80 ± 0.02 0.84 ± 0.03	12.8±0.4
Benson & Hedges Lights 100's 100FSP			12.8±0.4 11.7±0.3
Benson & Hedges Lights 100's 100FMSP	10.6±0.2	0.86±0.02	
*Benson & Hedges Multifilter KFSP		0.90 ± 0.02	11.1±0.3
Cambridge Full Flavor KFSP	17.5±0.3	1.14 ± 0.02	15.9±0.2
Cambridge Full Flavor 100's 100FSP		1.19 ± 0.02	16.6±0.4
Cambridge Lights KFSP		0.89 ± 0.02	12.7±0.2
Cambridge Lights KFMSP		0.87±0.02	13.0±0.4
Cambridge Lights 100's 100FSP		0.88 ± 0.01	13.6±0.3
Cambridge Lights 100's 100FMSP		0.88 ± 0.01	13.6 ± 0.3
Cambridge Ultra Low Tar 100s 100FSP		0.38 ± 0.01	6.0±0.2
Camel RNFSP		1.42 ± 0.03	14.0±0.3
Camel Filters KFHP	16.9±0.3	1.04 ± 0.02	16.1 ± 0.3
Camel Filters KFSP	14.8 ± 0.2	0.96 ± 0.02	14.3 ± 0.3
Camel Filters 100's 100FSP	17.3±0.2	1.04 ± 0.02	18.9 ± 0.3
Camel Lights KFHP	9.4±0.2	0.62 ± 0.01	11.6±0.2
Camel Lights KFSP		0.66 ± 0.01	11.9 ± 0.2
Camel Lights 100's 100FSP		0.78 ± 0.01	13.7 ± 0.3
Capri 100FHP		0.80 ± 0.02	6.5 ± 0.2
Capri 100FMHP		0.75 ± 0.02	6.3 ± 0.2
Capri 120's 120FHP		1.12 ± 0.02	9.8±0.3
Capri 120's 120FMHP		0.96 ± 0.02	7.5±0.2
Carlton Ultra KFHP		< 0.05	< 0.5
Carlton KFSP		0.13±0.01	2.0±0.1
Carlton KFMSP		0.09 ± 0.01	1.3 ± 0.1
Carlton 83 KFHP		0.03 ± 0.01 0.12 ± 0.01	1.6±0.1
Carlton 100's 100FHP		0.09±0.00	0.9 ± 0.1
Carron 100 S 100Fffr	\ U.J	ひひきまいいり	ひっナエひっよ

*Retested brand

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Diana			
Carlton 100's 100FMHP	< 0.5	0.09 ± 0.00	0.9 ± 0.1
Carlton 100's 100FSP		0.29 ± 0.01	3.8±0.2
Carlton 100's 100FMSP		0.42 ± 0.01	6.2±0.2
Carlton 120's 120FSP		0.61 ± 0.02	5.5 ± 0.2
Carlton 120's 120FMSP		0.59 ± 0.02	5.1±0.1
		0.97 ± 0.02	17.4 ± 0.4
Century 25's (25) KFSP Century 25's 100's 100FSP	17.2±0.2	1.14 ± 0.02	20.4 ± 0.3
Century 25's Lights (25) KFSP	9.4±0.2	0.68 ± 0.01	11.0 ± 0.3
Century 25's Lights 100's 100FSP		0.89 ± 0.02	13.0 ± 0.3
Century 25's Lights 100's 100FMSP		0.82 ± 0.02	12.5 ± 0.4
Chesterfield RNFSP	19.7±0.4	1.26 ± 0.03	12.6 ± 0.3
Chesterfield KNFSP	23.5±0.5	1.58 ± 0.04	14.8 ± 0.4
Chesterfield Lights KFSP		0.79 ± 0.01	11.6 ± 0.2
Chesterfield Lights 100s 100FSP	10.3±0.2	0.86 ± 0.01	11.3 ± 0.3
Doral Full Flavor KFSP	16.2±0.3	1.02 ± 0.03	16.5 ± 0.4
Doral Full Flavor KFMSP		1.09 ± 0.02	16.1 ± 0.3
Doral Full Flavor 100's 100FSP		1.11 ± 0.03	18.1 ± 0.4
Doral Full Flavor 100's 100FMSP		1.13 ± 0.02	17.3 ± 0.2
Doral Lights KFSP		0.72 ± 0.02	11.2 ± 0.3
Doral Menthol Lights KFMSP	10.0±0.3	0.73 ± 0.02	11.4 ± 0.4
Doral Lights 100's 100FSP	10.3±0.3	0.83 ± 0.02	10.5 ± 0.4
Doral Menthol Lights 100's 100FMSP	10.9±0.2	0.88 ± 0.02	11.2 ± 0.3
Doral Ultra Lights 100's 100FSP	4.9±0.2	0.46 ± 0.01	7.8 ± 0.3
English Ovals KNFHP	23.5±0.4	1.83 ± 0.04	15.3 ± 0.4
Eve Slim Lights 100's 100FHP	12.7±0.2	1.03 ± 0.02	10.9 ± 0.2
Eve Slim Lights 100's 100FMHP	12.9±0.3	1.03 ± 0.02	10.7 ± 0.3
Eve Lights 120's 120FHP	12.8±0.3	1.11 ± 0.02	11.4 ± 0.3
Eve Lights 120's 120FMHP		1.14 ± 0.03	11.5 ± 0.3
Eve Ultra Lights 120's 120FHP	5.4±0.2	0.58 ± 0.02	4.0 ± 0.1
Eve Ultra Lights 120's 120FMHP	5.3±0.2	0.58 ± 0.02	3.9 ± 0.2
Falcon Lights KFSP	10.9±0.3	0.74 ± 0.02	11.0 ± 0.3
Falcon Lights KFMSP	10.4±0.3	0.79 ± 0.02	12.0 ± 0.4
Falcon Lights 100's 100FSP		0.79 ± 0.02	14.2 ± 0.4
Falcon Lights 100's 100FMSP	9.0±0.3	0.75 ± 0.02	10.8 ± 0.3
Harley Davidson KFSP	13.9±0.1	0.99 ± 0.01	16.0 ± 0.2
Herbert Tareyton KNFSP	25.3±1.0	1.57 ± 0.03	17.6 ± 0.4
Kent Golden Lights KFHP	8.1±0.2	0.71 ± 0.02	9.2 ± 0.3
Kent Golden Lights KFSP		0.69 ± 0.02	8.5 ± 0.3
Kent Golden Lights KFMSP		0.73 ± 0.02	8.9 ± 0.4
Kent Golden Lights 100s 100FHP		0.83 ± 0.03	9.7 ± 0.4
Kent Golden Lights 100s 100FSP		0.80 ± 0.02	9.2 ± 0.5
Kent Golden Lights 100s 100FMSP	9.7±0.4	0.88 ± 0.03	10.5 ± 0.5
Kent KFHP	11.1±0.2	0.82 ± 0.01	12.6 ± 0.2
Kent KFSP		0.87 ± 0.02	13.6 ± 0.4
Kent 100s 100FSP		1.03 ± 0.02	15.1 ± 0.3
Kent 100s 100FMSP		1.04 ± 0.02	14.9 ± 0.3
Kent III KFSP		0.34 ± 0.01	4.6 ± 0.2

	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
	7 12 13		
Kent III 100s 100FHP	4.9±0.2	0.47 ± 0.01	7.2 ± 0.2
Kent III 100s 100FSP	4.7±0.1	0.44 ± 0.01	7.1 ± 0.2
Kool RNFMSP	21.5±0.8	1.39 ± 0.02	14.6 ± 0.3
Kool KFMHP	15.9±0.4	1.09 ± 0.02	15.6 ± 0.4
Kool KFMSP	17.0±0.3	1.19 ± 0.03	16.0 ± 0.4
Kool Super Longs 100's 100FMSP	17.2±0.3	1.27 ± 0.03	16.9 ± 0.3
Kool Lights KFMSP		0.67 ± 0.02	9.0 ± 0.2
Kool Lights 100's 100FMSP		0.74 ± 0.02	10.0 ± 0.4
Kool Milds KFMHP	11.5 ± 0.2	0.87 ± 0.01	11.4 ± 0.2
Kool Milds KFMSP	12.2 ± 0.2	0.94 ± 0.03	12.6 ± 0.2
Kool Milds 100's 100FMSP	12.1 ± 0.3	0.95 ± 0.02	13.0 ± 0.3
Kool Ultra KFMSP	1.8±0.1	0.18 ± 0.01	2.1 ± 0.1
Kool Ultra 100's 100FMSP		0.43 ± 0.02	5.0 ± 0.2
L & M KFHP	13.6±0.2	1.07 ± 0.02	12.9 ± 0.2
L & M KFSP	13.6±0.3	1.05 ± 0.02	13.0 ± 0.3
L & M Super 100 100FSP	13.7±0.2	1.09 ± 0.02	14.6 ± 0.3
L & M Long Lights 100FSP		0.85 ± 0.02	6.8 ± 0.2
L & M 30's Lights 100's 100FSP		1.01 ± 0.02	9.9 ± 0.3
Lark KFSP		1.08 ± 0.02	12.3 ± 0.2
Lark 100FSP		1.17 ± 0.02	13.6 ± 0.2
Lark Lights KFSP		1.01 ± 0.03	11.4 ± 0.3
Lark Light 100's 100FSP	13.0±0.3	1.07 ± 0.02	12.5 ± 0.4
Lucky Strike RNFSP	25.1±0.4	1.56 ± 0.03	17.2 ± 0.4
Lucky Strike KFHP	12.0±0.2	0.92 ± 0.02	12.8 ± 0.2
Lucky Strike KFSP		0.92 ± 0.02	12.8 ± 0.4
Lucky Strike Filters 100's 100FSP		0.96 ± 0.02	13.0 ± 0.3
Lucky Strike Lights KFSP		0.68 ± 0.01	10.1 ± 0.3
Lucky Strike Lights 100's 100FSP		0.76 ± 0.02	9.8 ± 0.3
Magna KFHP		0.89 ± 0.02	14.9 ± 0.3
Magna KFSP		0.93 ± 0.01	13.9 ± 0.3
Magna Lites KFSP		0.65 ± 0.02	13.4 ± 0.3
Malibu Filters KFSP		1.20 ± 0.02	14.9 ± 0.3
Malibu Menthol KFMSP		1.18 ± 0.02	14.0 ± 0.3
Malibu 100's 100FSP		1.12 ± 0.03	13.7 ± 0.5
Malibu Menthol 100's 100FMSP		0.93 ± 0.02	12.1 ± 0.4
Malibu Lights KFSP		0.76 ± 0.01	10.2 ± 0.3
Malibu Lights 100's 100FSP		0.75 ± 0.02	10.5 ± 0.2
Marlboro KFHP		1.17 ± 0.02	14.5 ± 0.4
Marlboro KFSP		1.18 ± 0.02	15.1 ± 0.3
Mariboro KFMSP		1.16 ± 0.02	15.0 ± 0.3
Marlboro 100's 100FHP		1.23 ± 0.02	16.2 ± 0.3
Marlboro 100's 100FSP		1.21±0.02	15.7 ± 0.4
Marlboro 25's KFSP		1.21 ± 0.02	15.4 ± 0.3
Marlboro Lights KFHP		0.85 ± 0.01	12.4±0.3
Marlboro Lights KFMHP		0.76 ± 0.02	11.1 ± 0.3
Marlboro Lights KFSP		0.86 ± 0.02	11.8±0.3
Marlboro Lights 100's 100FHP		0.86 ± 0.02	12.0 ± 0.2

	"Tar"	"Nicotine"	co
Brand	mg/cig	mg/cig	mg/cig
Marlboro Lights 100's 100FMHP	10.0 ± 0.2	0.81 ± 0.01	11.3 ± 0.2
Marlboro Lights 100's 100FSP		0.86 ± 0.02	12.0 ± 0.3
Marlboro Lights 25's KFSP		0.82 ± 0.02	11.9 ± 0.2
Marlboro 100's Red 100FHP		1.27 ± 0.02	17.3 ± 0.3
Mariboro 100's Red 100FSP		1.22 ± 0.01	15.9 ± 0.2
Max 120s 120FSP		1.32 ± 0.02	18.6 ± 0.4
Max 120s 120FMSP		1.32 ± 0.03	17.6 ± 0.5
Merit KFHP		0.62 ± 0.02	10.1 ± 0.3
Merit KFSP		0.63 ± 0.01	10.2 ± 0.3
Merit KFMSP		0.64 ± 0.01	9.8 ± 0.2
Merit 100's 100FSP		0.80 ± 0.02	12.1 ± 0.3
Merit 100's 100FMSP		0.78 ± 0.02	11.4 ± 0.3
Merit Ultra Lights KFHP		0.49 ± 0.01	6.4 ± 0.2
Merit Ultra Lights KFSP		0.46 ± 0.02	6.3 ± 0.1
Merit Ultra Lights KFMSP		0.46 ± 0.01	6.2 ± 0.2
Merit Ultra Lights 100's 100FHP		0.58 ± 0.02	7.1 ± 0.2
Merit Ultra Lights 100's 100FSP		0.53 ± 0.01	7.1 ± 0.2
Merit Ultra Lights 100's 100FMSP		0.51 ± 0.01	7.2 ± 0.3
More 120s 120FSP		1.21 ± 0.02	21.8 ± 0.3
More 120s 120FMSP		1.32 ± 0.02	21.9 ± 0.5
More Lights 100s 100FHP		0.84 ± 0.02	11.1 ± 0.3
More Lights 100s 100FMHP		0.72 ± 0.01	10.8 ± 0.2
More Lights 120s 120FSP		0.91 ± 0.02	18.8 ± 0.4
More Lights 120s 120FMSP		0.99 ± 0.02	19.5±0.5
More White Lights 120s 120FSP		0.74 ± 0.01	13.5 ± 0.3
More White Lights 120s 120FMSP		0.81 ± 0.02	14.8 ± 0.3
Newport KFMHP		1.15±0.02	16.9 ± 0.3
Newport KFMSP		1.23±0.02	17.7±0.3
Newport 100's 100FMHP		1.42±0.03	19.4±0.3
Newport 100's 100FMSP		1.37 ± 0.02	18.7±0.4
Newport 25's KFMSP		1.24±0.02	18.1±0.2
Newport 25's 100's 100FMSP		1.45 ± 0.02	19.4±0.3
Newport Lights KFMHP		0.72 ± 0.01	9.2±0.2
Newport Lights KFMSP		0.72 ± 0.02	9.0±0.3
Newport Lights 100's 100FMHP		0.81 ± 0.02	9.2±0.3
Newport Lights 100's 100FMSP		0.80 ± 0.02	9.2±0.4
Newport Stripes 100FHP	11.7+0.2	0.91 ± 0.02	15.5±0.4
Newport Stripes 100FMHP		0.90 ± 0.02	16.4±0.4
Newport Stripes Slim Lights 100FMHP		0.76±0.01	11.3±0.3
Now KFHP		< 0.05	< 0.5
Now KFSP.		0.13 ± 0.01	2.0±0.1
Now KFMSP		0.13 ± 0.01	2.2±0.1
Now 100s 100FHP		< 0.05	< 0.5
Now 100s 100FSP		0.20 ± 0.01	2.8±0.1
Now 100s 100FMSP		0.25±0.01	4.0±0.2
Old Gold Straights KNFSP		1.77 ± 0.03	17.9±0.6
Old Gold Filters KFSP		1.25 ± 0.02	18.2±0.5

. •	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
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Old Gold Filter 100's 100FSP	18.4±0.3	$1.39 \pm 0.02$	$19.2 \pm 0.3$
Old Gold Lights KFSP		$0.77 \pm 0.02$	$9.9 \pm 0.4$
Old Gold Lights 100s 100FSP	12.0±0.2	$0.92 \pm 0.02$	$16.4 \pm 0.3$
Pall Mall KNFSP	24.7±0.6	$1.65 \pm 0.04$	$16.3 \pm 0.5$
Pali Mali 25's KNFSP		$1.66 \pm 0.03$	$16.3 \pm 0.3$
Pall Mall 100's 100FSP		$1.34 \pm 0.02$	$17.2 \pm 0.2$
Pall Mall Lights 100's 100FSP		$0.85 \pm 0.02$	$11.8 \pm 0.3$
Pall Mall Red Filters KFSP		$1.13 \pm 0.03$	$13.6 \pm 0.3$
Pall Mall Red Filters 100's 100FSP		$1.17 \pm 0.02$	$14.9 \pm 0.3$
Pall Mall Red Lights KFSP		$0.82 \pm 0.01$	$10.5 \pm 0.2$
Pall Mall Red Lights 100's 100FSP	9.3+0.2	$0.79 \pm 0.01$	9.6±0.2
Parliament Lights KFHP		$0.74 \pm 0.01$	$9.9 \pm 0.3$
Parliament Lights KFSP		$0.76 \pm 0.01$	$10.7 \pm 0.3$
Parliament Lights 100's 100FSP		1.02±0.02	12.8±0.3
*Philip Morris RNFSP		$1.43 \pm 0.03$	13.6±0.5
Philip Morris Commander KNFSP		$1.65 \pm 0.03$	16.1±0.5
Philip Morris International 100FHP		1.25±0.03	16.1±0.3
		$1.28 \pm 0.02$	15.6±0.2
Philip Morris International 100FMHP		$1.74 \pm 0.02$	15.4±0.4
Players RNFHP	12 0±02	0.87±0.03	12.6±0.3
Players KFHP	11 0 ± 0.3	0.86±0.01	$12.6 \pm 0.2$
Players KFMHP		1.04±0.02	12.9±0.2
Players 100's 100FHP			$12.9 \pm 0.2$ $12.5 \pm 0.2$
Players 100's 100FMHP		1.03 ± 0.02	$12.3\pm0.2$ $11.3\pm0.2$
Players Lights 25's KFSP		$0.77 \pm 0.01$	
Players Lights 25's KFMSP	10.1±0.2	$0.74 \pm 0.02$	11.2±0.2
Players 25's Lights 100's 100FSP		$0.88 \pm 0.02$	13.7±0.3
Players 25's Lights 100's 100FMSP		$0.87 \pm 0.01$	13.5±0.3
Prince KFSP		1.31±0.02	$18.0 \pm 0.2$
Prince Lights KFSP		$1.08 \pm 0.02$	$12.4 \pm 0.3$
Pyramid KNFSP		$1.52 \pm 0.02$	14.7±0.4
Pyramid Lights KFSP		$1.06 \pm 0.02$	$12.9 \pm 0.3$
Pyramid Lights 100's 100FSP		$1.14 \pm 0.02$	14.5±0.2
Pyramid Ultra Lights 100's 100FSP		$0.57 \pm 0.01$	$5.1 \pm 0.1$
Raleigh KNFSP	25.1±0.4	$1.46 \pm 0.03$	$16.9 \pm 0.4$
Raleigh KFSP	15.3±0.4	$0.96 \pm 0.03$	$14.4 \pm 0.3$
Raleigh 100's 100FSP	15.5 ± 0.4	$0.97 \pm 0.02$	$15.7 \pm 0.3$
Raleigh Lights KESP	11.4±0.3	$0.89 \pm 0.02$	$12.5 \pm 0.3$
Raleigh Lights 100's 100FSP	12.3±0.2	$0.92 \pm 0.01$	$14.6 \pm 0.3$
Richland 20's KFSP	17.2±0.4	$1.18 \pm 0.02$	$16.2 \pm 0.3$
Richland 20's KFMSP		$1.05 \pm 0.02$	$15.5 \pm 0.4$
Richland 20's 100's 100FSP		$1.30 \pm 0.02$	$17.0 \pm 0.3$
Richland 20's Menthol 100's 100FMSP		1.14±0.02	$16.4 \pm 0.3$
Richland 20's Lights KFSP		$0.91 \pm 0.01$	$12.5 \pm 0.3$
Richland 20's Lights 100's 100FSP		$0.91 \pm 0.02$	$14.0 \pm 0.3$
Richland (25) KFSP	16.8+0.3	$1.16 \pm 0.02$	$16.1 \pm 0.4$
*D 1 1 1			

^{*}Retested brand

	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
<i>1)</i> ( <i>a a a a a a a a a a</i>	1115/015		
Richland (25) KFMSP	16.5±0.4	1.08±0.02	15.8±0.4
Richland 100's (25) 100FSP		1.35±0.02	17.5±0.3
Richland Lights (25) KFSP		$0.90 \pm 0.02$	12.6±0.3
Richland Lights (25) 100's 100FSP		0.95±0.02	14.4±0.3
Ritz 100 100FHP		$0.77 \pm 0.02$	$10.7 \pm 0.3$
Ritz 100 100FMHP		0.78±0.01	$11.0 \pm 0.3$
Salem KFMSP		$1.16 \pm 0.02$	$16.7 \pm 0.2$
Salem 100's 100FMSP		$1.15 \pm 0.02$	$16.0 \pm 0.4$
Salem Lights KFMSP		$0.70 \pm 0.01$	$12.0 \pm 0.3$
Salem Lights 100's 100FMHP		$0.83 \pm 0.01$	11.3±0.3
Salem Lights 100's 100FMSP		$0.68 \pm 0.02$	$10.0 \pm 0.2$
Salem Slim Lights 100's 100FMHP		$0.75 \pm 0.01$	$10.0 \pm 0.2$
Salem Ultra Lights KFMSP		$0.44 \pm 0.01$	$7.6 \pm 0.2$
Salem Ultra Lights 100's 100FMSP		$0.41 \pm 0.01$	$7.0 \pm 0.3$
Saratoga 120's 120FHP		$1.17 \pm 0.02$	$15.0 \pm 0.4$
Saratoga 120's 120FMHP		$1.13 \pm 0.02$	14.3 ± 0.3
Satin 100FSP		$0.94 \pm 0.01$	$13.3 \pm 0.4$
Satin 100FMSP		$0.94 \pm 0.02$	13.6±0.3
Savvy 100's Lights 100FSP		$0.87 \pm 0.02$	$10.7 \pm 0.2$
Savvy 100's Lights 100FMSP		$0.88 \pm 0.02$	$10.9 \pm 0.2$
Savvy Ultra Lights 100's 100FSP		$0.54 \pm 0.01$	5.2±0.1
Silva Thins Filters 100FHP		$1.01 \pm 0.02$	11.8±0.2
Silva Thins Menthol 100FMHP.		$0.99 \pm 0.02$	11.9±0.3
Spring 100's 100FMSP		$1.40 \pm 0.03$	$18.4 \pm 0.4$
Tall 120s 120FSP		1.56±0.03	19.2±0.3
Tall 120s 120FMSP		$1.57 \pm 0.03$	17.5±0.3
Tareyton KFSP		$0.99 \pm 0.02$	15.6±0.3
Tareyton 100's 100FSP		1.02±0.02	$16.7 \pm 0.3$
Tareyton Lights KFSP		$0.44 \pm 0.02$	$5.7 \pm 0.4$
Tareyton Long Lights 100FSP	79+03	$0.68 \pm 0.02$	8.8±0.4
Triumph KFSP		$0.30 \pm 0.01$	3.6±0.2
Triumph KFMSP		$0.35 \pm 0.02$	$4.4 \pm 0.3$
Triumph 100s 100FSP		$0.50 \pm 0.01$	7.6±0.3
Triumph 100s 100FMSP		$0.52 \pm 0.02$	7.8±0.2
True KFSP		0.46±0.02	6.1±0.3
True KFMSP		0.46±0.01	$6.1 \pm 0.2$
True 100's 100FSP		0.60±0.02	$7.0 \pm 0.3$
True 100's 100FMSP		$0.61 \pm 0.02$	$7.2 \pm 0.4$
Vantage KFSP		$0.73 \pm 0.01$	$13.4 \pm 0.2$
Vantage KFMSP		$0.68 \pm 0.01$	12.2±0.2
Vantage 100s 100FSP		$0.64 \pm 0.01$	$11.4 \pm 0.2$
Vantage Menthol 100s 100FMSP		$0.60 \pm 0.01$	$12.6 \pm 0.3$
Vantage Excell 100's 100FSP		$0.72 \pm 0.02$	9.2±0.3
Vantage Ultra Lights KFSP		$0.43 \pm 0.01$	$7.4 \pm 0.2$
Vantage Ultra Lights 100s 100FSP		$0.44 \pm 0.01$	8.0±0.2
Viceroy KFSP		1.11±0.03	$15.7 \pm 0.4$
Viceroy Super Long 100's 100FSP	16.1±0.3	1.17±0.02	15.3±0.3
Trees of paper north root or minimum			

	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
Viceroy Lights KFSP	$11.3 \pm 0.2$	$0.87 \pm 0.02$	$12.7 \pm 0.3$
Viceroy Lights 100's 100FSP		$0.92 \pm 0.02$	$13.8 \pm 0.3$
Virginia Slims 100FSP	15.0±0.3	$1.12 \pm 0.02$	$13.2 \pm 0.2$
Virginia Slims 100FMSP	15.3 ± 0.2	$1.15 \pm 0.02$	$13.3 \pm 0.3$
Virginia Slims Lights 100FHP	8.7±0.2	$0.72 \pm 0.02$	$9.6 \pm 0.3$
Virginia Slims Lights 100FMHP		$0.71 \pm 0.01$	$9.6 \pm 0.2$
Virginia Slims Lights 120's 120FHP		$1.13 \pm 0.02$	$13.9 \pm 0.4$
Virginia Slims Lights 120's 120FMHP	13.7±0.3	$1.09 \pm 0.02$	$13.3 \pm 0.3$
Virginia Slims Ultra Lights 100 100FHP		$0.47 \pm 0.01$	$5.4 \pm 0.2$
Virginia Slims Ultra Lights 100 100FMHP	4.8±0.2	$0.45 \pm 0.02$	$5.2 \pm 0.2$
Winston KFHP	16.8±0.3	$1.05 \pm 0.02$	$15.8 \pm 0.3$
Winston KFSP		$1.11 \pm 0.02$	$16.2 \pm 0.3$
Winston 100's 100FSP		$1.05 \pm 0.01$	$19.1 \pm 0.3$
Winston Lights KFHP		$0.62 \pm 0.01$	$11.5 \pm 0.2$
Winston Lights KFSP	9.5±0.2	$0.66 \pm 0.02$	$11.4 \pm 0.2$
Winston Lights 100's 100FHP	9.9±0.2	$0.72 \pm 0.02$	$12.3 \pm 0.4$
Winston Lights 100's 100FSP		$0.79 \pm 0.01$	$12.7 \pm 0.2$
Winston Ultra Lights KFSP		$0.47 \pm 0.01$	$8.5 \pm 0.2$
Winston Ultra Lights 100's 100FSP		$0.43 \pm 0.01$	$8.3 \pm 0.2$
Craven "A" KFHP		$1.19 \pm 0.02$	$16.3 \pm 0.3$
Craven "A" Filter Standard Size RFHP		$1.54 \pm 0.03$	$14.1 \pm 0.3$
Dunhill International 100FHP	16.9±0.2	$1.56 \pm 0.03$	$17.3 \pm 0.3$
Dunhill Menthol 100FMHP		$1.26 \pm 0.02$	$17.1 \pm 0.2$
Dunhill Menthol Mild 100FMHP	10.8±0.4	$0.97 \pm 0.03$	$13.0 \pm 0.4$
Dunhill International Superior Mild 100FHP	8.5±0.3	$0.79 \pm 0.02$	$9.8 \pm 0.3$
Rothmans KFHP	18.0 ± 0.3	$1.36 \pm 0.02$	$18.9 \pm 0.3$
Rothmans Special Mild KFHP		$1.11 \pm 0.02$	$15.9 \pm 0.2$
St. Moritz Filter 100FSP		$1.09 \pm 0.02$	$15.5 \pm 0.2$
St. Moritz Menthol 100FMSP		$0.93 \pm 0.02$	$16.0 \pm 0.4$

	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
			4.0
*Alpine KFMSP		1.1	16 15
*Alpine 100s 100FMSP		1.1	15
Alpine Lights KFMSP		0.7	11
Alpine Lights 100's 100FMSP		0.8	11
American Filter King KFSP		1.2	14
American Filter 100's 100FSP		1.2	15
American Lights KFSP		0.9	13
American Lights 100's 100FSP		1.0	13
Belair KFMSP		0.8	10
Belair 100's 100FMSP		0.6	9
Benson & Hedges KFHP		1.2	13
Benson & Hedges 100's 100FHP		1.2	15
Benson & Hedges 100's 100FMHP	16	1.2	16
Benson & Hedges 100's 100FSP	17	1.2	17
Benson & Hedges 100's 100FMSP		1.2	16
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5	0.5	7
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP		0.5	7
Benson & Hedges Lights 100's 100FHP		0.9	12
Benson & Hedges Lights 100's 100FMHP		0.8	11
Benson & Hedges Lights 100's 100FSP		0.8	13
Benson & Hedges Lights 100's 100FMSP		0.9	12
*Benson & Hedges Multifilter KFSP		0.9	11
Cambridge Full Flavor KFSP		1,1	16
Cambridge Full Flavor 100's 100FSP		1.2	17
Cambridge Lights KFSP		0.9	13
Cambridge Lights KFMSP		0.9	13
Cambridge Lights 100's 100FSP		0.9	14
Cambridge Lights 100's 100FMSP		0.9	14
Cambridge Ultra Low Tar 100s 100FSP		0.4	6
Camel RNFSP		1.4	14
Camel Filters KFHP		1.0	16
Camel Filters KFSP		1.0	14
Camel Filters 100's 100FSP	17	1.0	19
Camel Lights KFHP		0.6	12
Camel Lights KFSP		0.7	12
Camel Lights 100's 100FSP		0.8	14
Cami 100EIID	10	0.8	7
Capri 100FHP	10	0.8	6
Capri 100FMHP		1.1	10
Capri 120's 120FHP		1.0	8
Carlian Liltar VELLP		< 0.05	< 0.5
Carlton Ultra KFHP			2
Carlton KFSP		0.1 0.1	1
Carlton KFMSP			2
Carlton 83 KFHP		0.1	1
Cariton Hille Hillehill	< ∪.⊃	0.1	т

^{*}Retested brand

	"Tar"	"Nicotine"	СО
Brand	mg/cig	mg/cig	mg/cig
		0.4	
Carlton 100's 100FMHP		0.1	1
Carlton 100's 100FSP		0.3	4
Carlton 100's 100FMSP		0.4	6
Carlton 120's 120FSP		0.6	6
Carlton 120's 120FMSP		0.6	5
Century 25's (25) KFSP		1.0	17
Century 25's 100's 100FSP		1.1	20
Century 25's Lights (25) KFSP		0.7	11
Century 25's Lights 100's 100FSP		0.9	13
Century 25's Lights 100's 100FMSP		0.8	13
Chesterfield RNFSP		1.3	13
Chesterfield KNFSP		1.6	15
Chesterfield Lights KFSP		0.8	12
Chesterfield Lights 100s 100FSP	10	0.9	11
Doral Full Flavor KFSP		1.0	17
Doral Full Flavor KFMSP	16	1.1	16
Doral Full Flavor 100's 100FSP	16	1.1	18
Doral Full Flavor 100's 100FMSP	16	1.1	17
Doral Lights KFSP	10	0.7	11
Doral Menthol Lights KFMSP		0.7	11
Doral Lights 100's 100FSP		0.8	10
Doral Menthol Lights 100's 100FMSP		0.9	11
Doral Ultra Lights 100's 100FSP		0.5	8
English Ovals KNFHP		1.8	15
Eve Slim Lights 100's 100FHP		1.0	11
Eve Slim Lights 100's 100FMHP		1.0	11
Eve Lights 120's 120FHP		1.1	11
Eve Lights 120's 120FMHP		1.1	11
Eve Ultra Lights 120's 120FHP		0.6	4
Eve Ultra Lights 120's 120FMHP		0.6	4
Falcon Lights KFSP		0.7	11
Falcon Lights KFMSP		0.8	12
Falcon Lights 100's 100FSP		0.8	14
Falcon Lights 100's 100FMSP		0.7	11
Harley Davidson KFSP		1.0	16
Herbert Tareyton KNFSP		1.6	18
Kent Golden Lights KFHP		0.7	9
		0.7	8
Kent Golden Lights KFSP		0.7	9
Kent Golden Lights KFMSP			
Kent Golden Lights 100s 100FHP		0.8	10
Kent Golden Lights 100s 100FSP		0.8	9
Kent Golden Lights 100s 100FMSP		0.9	10
Kent KFHP		0.8	13
Kent KFSP		0.9	14
Kent 100s 100FSP		1.0	15 1.5
Kent 100s 100FMSP		1.0	15
Kent III KFSP	3	0.3	5

	"Tar"	"Nicotine"	co
Brand	mg/cig	mg/cig	mg/cig
<i>-</i>			
Kent III 100s 100FHP	5	0.5	7
Kent III 100s 100FSP		0.4	7
Kool RNFMSP	22	1.4	15
Kool KFMHP		1.1	16
Kool KFMSP		1,2	16
Kool Super Longs 100's 100FMSP		1.3	17
Kool Lights KFMSP		0.7	9
Kool Lights 100's 100FMSP	9	0.7	10
Kool Milds KFMHP	11	0.9	11
Kool Milds KFMSP		0.9	13
Kool Milds 100's 100FMSP		0.9	13
Kool Ultra KFMSP		0.2	2
Kool Ultra 100's 100FMSP		0.4	5
L & M KFHP		1.1	13
L & M KFSP		1.0	13
L & M Super 100 100FSP		1.1	15
L & M Long Lights 100FSP		0.9	7
L & M 30's Lights 100's 100FSP		1.0	10
Lark KFSP		1.1	12
Lark 100FSP		1.2	14
Lark Lights KFSP		1.0	11
		1.1	13
Lark Light 100's 100FSP		1.6	13 17
Lucky Strike RNFSP		0.9	13
Lucky Strike KFHP		0.9	13
Lucky Strike KFSP		1.0	13
Lucky Strike Filters 100's 100FSP		0.7	10
Lucky Strike Lights KFSP			10
Lucky Strike Lights 100's 100FSP		0.8	15
Magna KFHP	14	0.9	— <del>-</del>
Magna KFSP		0.9	14
Magna Lites KFSP		0.7	13
Malibu Filters KFSP		1.2	15
Malibu Menthol KFMSP		1.2	14
Malibu 100's 100FSP		1.1	1.4
Malibu Menthol 100's 100FMSP		0.9	12
Malibu Lights KFSP	10	0.8	10
Malibu Lights 100's 100FSP	9	0.8	11
Marlboro KFHP		1.2	15
Marlboro KFSP		1.2	15
Marlboro KFMSP		1.2	15
Marlboro 100's 100FHP		1.2	16
Marlboro 100's 100FSP	16	1.2	16
Marlboro 25's KFSP	17	1.2	15
Marlboro Lights KFHP	11	0.9	12
Marlboro Lights KFMHP	10	0.8	11
Marlboro Lights KFSP	11	0.9	12
Marlboro Lights 100's 100FHP		0.9	12
-	•		

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Digital	XX 1 V25		<b>B</b> / <b>B</b>
Marlboro Lights 100's 100FMHP	10	0.8	11
Marlboro Lights 100's 100FSP	11	0.9	12
Marlboro Lights 25's KFSP		0.8	12
Marlboro 100's Red 100FHP		1.3	17
Marlboro 100's Red 100FSP		1.2	16
Max 120s 120FSP		1.3	19
Max 120s 120FMSP		1.3	18
Merit KFHP		0.6	10
Merit KFSP		0.6	10
Merit KFMSP		0.6	10
Merit 100's 100FSP		0.8	12
Merit 100's 100FMSP		0.8	11
Merit Ultra Lights KFHP		0.5	6
Merit Ultra Lights KFSP	5	0.5	6
Merit Ultra Lights KFMSP		0.5	6
Merit Ultra Lights 100's 100FHP		0.6	7
Merit Ultra Lights 100's 100FSP		0.5	7
Merit Ultra Lights 100's 100FMSP		0.5	7
More 120s 120FSP	17	1.2	22
More 120s 120FMSP		1.3	22
More Lights 100s 100FHP		0.8	11
More Lights 100s 100FMHP		0.7	11
More Lights 120s 120FSP		0.9	19
More Lights 120s 120FMSP		1.0	20
More White Lights 120s 120FSP		0.7	13
More White Lights 120s 120FMSP		0.8	15
Newport KFMHP		1.2	17
Newport KFMSP		1,2	18
Newport 100's 100FMHP		1.4	19
Newport 100's 100FMSP		1.4	19
Newport 25's KFMSP		1.2	18
Newport 25's 100's 100FMSP		1.4	19
Newport Lights KFMHP		0.7	9
Newport Lights KFMSP		0.7	9
Newport Lights 100's 100FMHP		0.8	9
Newport Lights 100's 100FMSP		0.8	9
Newport Stripes 100FHP		0.9	16
Newport Stripes 100FMHP		0.9	16
Newport Stripes Slim Lights 100FMHP		0.8	11
Now KFHP		< 0.05	< 0.5
Now KFSP		0.1	2
Now KFMSP		0.1	2
Now 100s 100FHP		< 0.05	< 0.5
Now 100s 100FSP		0.2	3
Now 100s 100FMSP		0.2	4
Old Gold Straights KNFSP		1.8	18
Old Gold Filters KFSP		1.2	18

Day and	"Tar"	"Nicotine"	CO mg/cig
Brand	mg/cig	mg/cig	mg/cig
Old Gold Filter 100's 100FSP	10	1.4	19
		0.8	10
Old Gold Lights KFSP		0.9	16
Old Gold Lights 100s 100FSP		1.7	16
Pail Mall 25's KNFSP		1.7	16
Pall Mall 100's 100FSP		1.3	10 17
Pall Mall Lights 100's 100FSP		0.9	12
Pall Mall Red Filters KFSP		1.1	14
Pall Mall Red Filters 100's 100FSP		1.2	15
Pall Mall Red Lights KFSP		0.8	10
Pall Mall Red Lights 100's 100FSP		0.8	10 10
Parliament Lights KFHP		0.7	10 10
Parliament Lights KFSP		0.8	11
Parliament Lights 100's 100FSP		1.0	13
*Philip Morris RNFSP		1.4	13
Philip Morris Commander KNFSP		1.7	16 16
Philip Morris International 100FHP		1.2	16
Philip Morris International 100FMHP		1.3	16
Players RNFHP		1.7	15 15
Players KFHP		0.9	13
		0.9	13
Players KFMHP		1.0	13
Players 100's 100FHP		1.0	12
Players 100's 100FMHP		0.8	11
Players Lights 25's KFSP		0.7	11
Players Lights 25's KFMSP		0.7	14
Players 25's Lights 100's 100FSP		0.9	13
Players 25's Lights 100's 100FMSP		1.3	18
Prince KFSP		1.1	12
Prince Lights KFSP		1.1 1.5	15
Pyramid KNFSP		1.5 1.1	
Pyramid Lights KFSP		1.1 1.1	13
Pyramid Lights 100's 100FSP	13	0.6	14 5
Pyramid Ultra Lights 100's 100FSP			
Raleigh KNFSP		1.5	17
Raleigh KFSP		1.0	14
Raleigh 100's 100FSP		1.0	16
Raleigh Lights KFSP		0.9	13
Raleigh Lights 100's 100FSP		0.9	15
Richland 20's KFSP		1.2	16 16
Richland 20's KFMSP		1.0	16 17
Richland 20's 100's 100FSP		1.3	17 16
Richland 20's Menthol 100's 100FMSP		1.1	16 12
Richland 20's Lights KFSP		0.9	13
Richland 20's Lights 100's 100FSP		0.9	14 16
Richland (25) KFSP		1,2	16
*Retested brand			

·	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
Richland (25) KFMSP	16	1.1	16
Richland 100's (25) 100FSP	18	1.4	18
Richland Lights (25) KFSP	12	0.9	13
Richland Lights (25) 100's 100FSP		1.0	14
Ritz 100 100FHP		0.8	11
Ritz 100 100FMHP	11	0.8	11
Salem KFMSP	17	1,2	17
Salem 100's 100FMSP	16	1.2	16
Salem Lights KFMSP	9	0.7	12
Salem Lights 100's 100FMHP	11	0.8	11
Salem Lights 100's 100FMSP	8	0.7	10
Salem Slim Lights 100's 100FMHP	10	0.7	10
Salem Ultra Lights KFMSP	5	0.4	8
Salem Ultra Lights 100's 100FMSP		0.4	7
Saratoga 120's 120FHP		1.2	15
Saratoga 120's 120FMHP	15	1.1	14
Satin 100FSP		0.9	13
Satin 100FMSP		0.9	14
Savvy 100's Lights 100FSP		0.9	11
Savvy 100's Lights 100FMSP		0.9	11
Savvy Ultra Lights 100's 100FSP		0.5	5
Silva Thins Filters 100FHP		1.0	12
Silva Thins Menthol 100FMHP		1.0	12
Spring 100's 100FMSP		1,4	18
Tall 120s 120FSP		1.6	19
Tall 120s 120FMSP		1.6	17
Tareyton KFSP		1.0	16
Tareyton 100's 100FSP	14	1.0	17
Tareyton Lights KFSP		0.4	6
Tareyton Long Lights 100FSP		0.7	9
Triumph KFSP		0.3	4
Triumph KFMSP		0.4	4
Triumph 100s 100FSP		0.5	8
		0.5	8
Triumph 100s 100FMSP		0.5	6
		0.5	6
True KFMSP		0.6	7
True 100's 100FSP			7
True 100's 100FMSP		0.6	•
Vantage KFSP		0.7	13
Vantage KFMSP		0.7	12
Vantage 100s 100FSP		0.6	11
Vantage Menthol 100s 100FMSP		0.6	13
Vantage Excell 100's 100FSP	9	0.7	9
Vantage Ultra Lights KFSP		0.4	7
Vantage Ultra Lights 100s 100FSP		0.4	8
Viceroy KFSP		1.1	16 15
Viceroy Super Long 100's 100FSP	16	1.2	15

•	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
Viceroy Lights KFSP		0.9	13
Viceroy Lights 100's 100FSP	12	0.9	14
Virginia Slims 100FSP	15	1,1	13
Virginia Slims 100FMSP	15	1.2	13
Virginia Slims Lights 100FHP	9	0.7	10
Virginia Slims Lights 100FMHP	9	0.7	10
Virginia Slims Lights 120's 120FHP	14	1.1	14
Virginia Slims Lights 120's 120FMHP	14	1.1	13
Virginia Slims Ultra Lights 100 100FHP	5	0.5	5
Virginia Slims Ultra Lights 100 100FMHP	5	0.4	5
Winston KFHP		1.1	16
Winston KFSP	17	1.1	16
Winston 100's 100FSP	17	1,1	19
Winston Lights KFHP	10	0.6	12
Winston Lights KFSP	10	0.7	11
Winston Lights 100's 100FHP	10	0.7	12
Winston Lights 100's 100FSP	11	8.0	13
Winston Ultra Lights KFSP	5	0.5	8
Winston Ultra Lights 100's 100FSP	5	0.4	8
Craven "A" KFHP		1.2	16
Craven "A" Filter Standard Size RFHP	19	1.5	14
Dunhill International 100FHP	17	1.6	17
Dunhill Menthol 100FMHP	15	1.3	17
Dunhill Menthol Mild 100FMHP	11	1.0	13
Dunhill International Superior Mild 100FHP		0.8	10
Rothmans KFHP		1.4	19
Rothmans Special Mild KFHP	14	1.1	16
St. Moritz Filter 100FSP		1.1	16
St. Moritz Menthol 100FMSP	14	0.9	16

### Appendix A

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - American Tobacco Company Brands

<b>;</b> ,	Tar	Nicotine	co
Brand	mg/cig_	mg/cig	mg/cig
American Filter King KFSP	16.4±0.2	1.15±0.01	14.5±0.3
American Filter 100's 100FSP	16.4±0.2	$1.21 \pm 0.02$	$14.5 \pm 0.3$
American Lights KFSP		$0.91 \pm 0.01$	$12.7 \pm 0.2$
American Lights 100's 100FSP		$0.97 \pm 0.02$	13.2±0.4
Carlton Ultra KFHP		< 0.05	< 0.5
Carlton KFSP		$0.13 \pm 0.01$	$2.0 \pm 0.1$
Carlton KFMSP		$0.09 \pm 0.01$	$1.3 \pm 0.1$
Carlton 83 KFHP		$0.12 \pm 0.01$	$1.6 \pm 0.1$
Carlton 100's 100FHP		$0.09 \pm 0.00$	$0.9 \pm 0.1$
Carlton 100's 100FMHP	< 0.5	$0.09 \pm 0.00$	$0.9 \pm 0.1$
Carlton 100's 100FSP	2.7±0.1	$0.29 \pm 0.01$	$3.8 \pm 0.2$
Carlton 100's 100FMSP	4.4±0.2	$0.42 \pm 0.01$	$6.2 \pm 0.2$
Carlton 120's 120FSP	6.1±0.2	$0.61 \pm 0.02$	$5.5 \pm 0.2$
Carlton 120's 120FMSP	5.9±0.2	$0.59 \pm 0.02$	$5.1 \pm 0.1$
Herbert Tareyton KNFSP		$1.57 \pm 0.03$	$17.6 \pm 0.4$
Lucky Strike RNFSP		$1.56 \pm 0.03$	$17.2 \pm 0.4$
Lucky Strike KFHP		$0.92 \pm 0.02$	$12.8 \pm 0.2$
Lucky Strike KFSP		$0.92 \pm 0.02$	12.8±0.4
Lucky Strike Filters 100's 100FSP		$0.96 \pm 0.02$	$13.0 \pm 0.3$
Lucky Strike Lights KFSP		$0.68 \pm 0.01$	$10.1 \pm 0.3$
Lucky Strike Lights 100's 100FSP		$0.76 \pm 0.02$	$9.8 \pm 0.3$
Malibu Filters KFSP	16.6±0.3	$1.20 \pm 0.02$	$14.9 \pm 0.3$
Malibu Menthol KFMSP	16.1 ± 0.3	$1.18 \pm 0.02$	$14.0 \pm 0.3$
Malibu 100's 100FSP	14.3±0.5	$1.12 \pm 0.03$	$13.7 \pm 0.5$
Malibu Menthol 100's 100FMSP		$0.93 \pm 0.02$	$12.1 \pm 0.4$
Malibu Lights KFSP		$0.76 \pm 0.01$	$10.2 \pm 0.3$
Malibu Lights 100's 100FSP		$0.75 \pm 0.02$	$10.5 \pm 0.2$
Pall Mall KNFSP		$1.65 \pm 0.04$	$16.3 \pm 0.5$
Pall Mall 25's KNFSP		$1.66 \pm 0.03$	$16.3 \pm 0.3$
Pall Mall 100's 100FSP	17.5±0.2	$1.34 \pm 0.02$	$17.2 \pm 0.2$
Pall Mall Lights 100's 100FSP		$0.85 \pm 0.02$	$11.8 \pm 0.3$
Pall Mall Red Filters KFSP		$1.13 \pm 0.03$	$13.6 \pm 0.3$
Pall Mall Red Filters 100's 100FSP		$1.17 \pm 0.02$	$14.9 \pm 0.3$
Pall Mall Red Lights KFSP	10.2±0.2	$0.82 \pm 0.01$	$10.5 \pm 0.2$
Pall Mall Red Lights 100's 100FSP		$0.79 \pm 0.01$	9.6±0.2
Silva Thins Filters 100FHP		$1.01 \pm 0.02$	$11.8 \pm 0.2$
Silva Thins Menthol 100FMHP		$0.99 \pm 0.02$	$11.9 \pm 0.3$
Tall 120s 120FSP		$1.56 \pm 0.03$	$19.2 \pm 0.3$
Tall 120s 120FMSP		$1.57 \pm 0.03$	17.5±0.3
Tareyton KFSP		$0.99 \pm 0.02$	15.6±0.3
Tareyton 100's 100FSP		$1.02 \pm 0.02$	$16.7 \pm 0.3$
Tareyton Lights KFSP		$0.44 \pm 0.02$	$5.7 \pm 0.4$
Tareyton Long Lights 100FSP	7.9±0.3	$0.68 \pm 0.02$	$8.8 \pm 0.4$

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - Brown & Williamson Brands

·	Tar	Nicotine	CO
Brand	mg/cig	mg/cig	mg/cig
Dianu	1115/015	X1.5/ V-5	
Belair KFMSP	10.5±0.2	$0.82 \pm 0.02$	$9.6 \pm 0.2$
Belair 100's 100FMSP		0.62±0.01	8.7±0.2
Capri 100FHP		0.80±0.02	6.5±0.2
Capri 100FMHP		$0.75 \pm 0.02$	$6.3 \pm 0.2$
Capri 120's 120FHP		1.12±0.02	9.8±0.3
Capri 120's 120FMHP		$0.96 \pm 0.02$	$7.5 \pm 0.2$
Falcon Lights KFSP		$0.74 \pm 0.02$	$11.0 \pm 0.3$
Falcon Lights KFMSP	10.4±0.3	$0.79 \pm 0.02$	$12.0 \pm 0.4$
Falcon Lights 100's 100FSP		$0.79 \pm 0.02$	$14.2 \pm 0.4$
Falcon Lights 100's 100FMSP		$0.75 \pm 0.02$	$10.8 \pm 0.3$
Kool RNFMSP	21.5±0.8	$1.39 \pm 0.02$	14.6±0.3
Kool KFMHP		$1.09 \pm 0.02$	$15.6 \pm 0.4$
Kool KFMSP		$1.19 \pm 0.03$	$16.0 \pm 0.4$
Kool Super Longs 100's 100FMSP		$1.27 \pm 0.03$	$16.9 \pm 0.3$
Kool Lights KFMSP		$0.67 \pm 0.02$	$9.0 \pm 0.2$
Kool Lights 100's 100FMSP	8.7±0.3	$0.74 \pm 0.02$	$10.0 \pm 0.4$
Kool Milds KFMHP		$0.87 \pm 0.01$	$11.4 \pm 0.2$
Kool Milds KFMSP		$0.94 \pm 0.03$	$12.6 \pm 0.2$
Kool Milds 100's 100FMSP		$0.95 \pm 0.02$	$13.0 \pm 0.3$
Kool Ultra KFMSP		$0.18 \pm 0.01$	$2.1 \pm 0.1$
Kool Ultra 100's 100FMSP		$0.43 \pm 0.02$	$5.0 \pm 0.2$
Prince KFSP		$1.31 \pm 0.02$	$18.0 \pm 0.2$
Prince Lights KFSP		$1.08 \pm 0.02$	$12.4 \pm 0.3$
Raleigh KNFSP		$1.46 \pm 0.03$	$16.9 \pm 0.4$
Raleigh KFSP		$0.96 \pm 0.03$	$14.4 \pm 0.3$
Raleigh 100's 100FSP		$0.97 \pm 0.02$	$15.7 \pm 0.3$
Raleigh Lights KFSP		$0.89 \pm 0.02$	$12.5 \pm 0.3$
Raleigh Lights 100's 100FSP	12.3±0.2	$0.92 \pm 0.01$	$14.6 \pm 0.3$
Richland 20's KFSP		$1.18 \pm 0.02$	$16.2 \pm 0.3$
Richland 20's KFMSP		$1.05 \pm 0.02$	15.5±0.4
Richland 20's 100's 100FSP		$1.30 \pm 0.02$	$17.0 \pm 0.3$
Richland 20's Menthol 100's 100FMSP		$1.14 \pm 0.02$	$16.4 \pm 0.3$
Richland 20's Lights KFSP		$0.91 \pm 0.01$	$12.5 \pm 0.3$
Richland 20's Lights 100's 100FSP	12.3±0.3	$0.91 \pm 0.02$	$14.0 \pm 0.3$
Richland (25) KFSP		$1.16 \pm 0.02$	$16.1 \pm 0.4$
Richland (25) KFMSP		$1.08 \pm 0.02$	$15.8 \pm 0.4$
Richland 100's (25) 100FSP		$1.35 \pm 0.02$	$17.5 \pm 0.3$
Richland Lights (25) KFSP		$0.90 \pm 0.02$	$12.6 \pm 0.3$
Richland Lights (25) 100's 100FSP		$0.95 \pm 0.02$	$14.4 \pm 0.3$
Viceroy KFSP		$1.11 \pm 0.03$	$15.7 \pm 0.4$
Viceroy Super Long 100's 100FSP	16.1±0.3	$1.17 \pm 0.02$	$15.3 \pm 0.3$
Viceroy Lights KFSP		$0.87 \pm 0.02$	$12.7 \pm 0.3$
Viceroy Lights 100's 100FSP		$0.92 \pm 0.02$	$13.8 \pm 0.3$

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - Liggett Group Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Chesterfield RNFSP	10 7+0 A	1.26±0.03	12.6±0.3
Chesterfield KNFSP		1.58±0.04	14.8±0.4
Chesterfield Lights KFSP		$0.79 \pm 0.01$	11.6±0.2
Chesterfield Lights 100s 100FSP		$0.86 \pm 0.01$	11.3±0.3
Eve Slim Lights 100's 100FHP		1.03±0.02	10.9±0.2
Eve Slim Lights 100's 100FMHP		$1.03 \pm 0.02$ $1.03 \pm 0.02$	$10.7 \pm 0.3$
Eve Lights 120's 120FHP		$1.11 \pm 0.02$	11.4±0.3
Eve Lights 120's 120FMHP	13.8+0.2	$1.14 \pm 0.03$	11.5±0.3
Eve Ultra Lights 120's 120FHP		$0.58 \pm 0.02$	$4.0 \pm 0.1$
Eve Ultra Lights 120's 120FMHP		$0.58 \pm 0.02$	$3.9 \pm 0.2$
L&M KFHP		1.07±0.02	$12.9 \pm 0.2$
L & M KFSP		$1.05 \pm 0.02$	$13.0 \pm 0.3$
L & M Super 100 100FSP		$1.09 \pm 0.02$	14.6±0.3
L & M Long Lights 100FSP		$0.85 \pm 0.02$	$6.8 \pm 0.2$
L & M 30's Lights 100's 100FSP		$1.01 \pm 0.02$	$9.9 \pm 0.3$
Lark KFSP	14.0±0.2	$1.08 \pm 0.02$	$12.3 \pm 0.2$
Lark 100FSP		$1.17 \pm 0.02$	13.6±0.2
Lark Lights KFSP		$1.01 \pm 0.03$	11.4±0.3
Lark Light 100's 100FSP	13.0±0.3	$1.07 \pm 0.02$	$12.5 \pm 0.4$
Pyramid KNFSP	22.7±0.4	$1.52 \pm 0.02$	$14.7 \pm 0.4$
Pyramid Lights KFSP		$1.06 \pm 0.02$	$12.9 \pm 0.3$
Pyramid Lights 100's 100FSP	13.5±0.2	$1.14 \pm 0.02$	$14.5 \pm 0.2$
Pyramid Ultra Lights 100's 100FSP		$0.57 \pm 0.01$	$5.1 \pm 0.1$
Savvy 100's Lights 100FSP	10.1±0.2	$0.87 \pm 0.02$	$10.7 \pm 0.2$
Savvy 100's Lights 100FMSP	10.3±0.2	$0.88 \pm 0.02$	$10.9 \pm 0.2$
Savvy Ultra Lights 100's 100FSP		$0.54 \pm 0.01$	$5.2 \pm 0.1$

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - Lorillard Brands

Brand   mg/cig   mg/cig   mg/cig   mg/cig     Harley Davidson KFSP		"Tar"	"Nicotine"	СО
Harley Davidson KFSP	Brand	mg/cig	mg/cig	mg/cig
Kent Golden Lights KFHP         8.1±0.2         0.71±0.02         9.2±0.3           Kent Golden Lights KFSP         7.6±0.2         0.69±0.02         8.5±0.3           Kent Golden Lights KFMSP         8.1±0.3         0.73±0.02         8.9±0.4           Kent Golden Lights 100s 100FMP         8.9±0.3         0.83±0.03         9.7±0.4           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KGHD         11.1±0.2         0.82±0.01         12.6±0.2           Kent Michael Lights 100s 100FMSP         11.1±0.2         0.82±0.01         12.6±0.2           Kent KFHP         11.1±0.2         0.82±0.01         12.6±0.2           Kent 100s 100FMSP         13.9±0.3         1.03±0.02         15.6±0.2           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III 100s 100FMSP         4.7±0.1         0.44±0.01         7.1±0.2           Kent III 100s 100FMSP         4.7±0.1         0.44±0.01         7.1±0.2           Kent III 100s 100FMSP         4.7±0.1         0.44±0.01         7.1±0.2           Kent III 100s 100FMSP         15.9±0.3         1.15±0.02         16.9±0.3				
Kent Golden Lights KFHP         8.1±0.2         0.71±0.02         9.2±0.3           Kent Golden Lights KFMSP         7.6±0.2         0.69±0.02         8.5±0.3           Kent Golden Lights KFMSP         8.1±0.3         0.73±0.02         8.9±0.3           Kent Golden Lights 100s 100FMP         8.9±0.3         0.83±0.03         9.7±0.4           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KFHP         11.1±0.2         0.82±0.01         12.6±0.2           Kent KFHP         11.8±0.3         0.87±0.02         15.1±0.3           Kent 100s 100FMSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III TSP         3.4±0.2         0.3±0.01         1.2±0.2           Kent III II TSP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III II TSP         4.7±0.1         0.4±0.01         7.1±0.2           Kent III II TSP         4.7±0	Harley Davidson KFSP	13.9±0.1	$0.99 \pm 0.01$	$16.0 \pm 0.2$
Kent Golden Lights KFMSP         7.6±0.2         0.69±0.02         8.3±0.3           Kent Golden Lights 100s 100FHP         8.9±0.3         0.73±0.02         9.2±0.5           Kent Golden Lights 100s 100FMSP         8.7±0.3         0.80±0.02         9.2±0.5           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KFHP         11.1±0.2         0.82±0.01         12.6±0.2           Kent 100s 100FMSP         13.9±0.3         1.03±0.02         13.6±0.4           Kent 100s 100FMSP         14.1±0.3         1.03±0.02         14.9±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent 100s 100FMSP         4.7±0.1         0.44±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FMSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FMSP         1.59±0.3         1.15±0.02         16.9±0.3           Newport KFMHP         1.59±0.3         1.15±0.02         16.9±0.3           Newport KFMSP         1.69±0.2         1.23±0.02         17.7±0.3			*	9.2±0.3
Kent Golden Lights 100s 100FHP         8.9±0.3         0.83±0.03         8.9±0.4           Kent Golden Lights 100s 100FHP         8.9±0.3         0.83±0.03         9.7±0.4           Kent Golden Lights 100s 100FSP         8.7±0.3         0.80±0.02         9.2±0.5           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KFHP         11.1±0.2         0.82±0.01         10.5±0.5           Kent KFSP         11.8±0.3         0.87±0.02         13.6±0.4           Kent 100s 100FMSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         15.1±0.3           Kent 100 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III 100s 100FMSP         4.7±0.1         0.44±0.01         7.2±0.2           Kent III 100s 100FMSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FMSP         17.2±0.2         1.32±0.03         17.6±0.5           Newport KFMHP         1.59±0.3         1.15±0.02         16.9±0.4           Newport 100°s 100FMSP         18.7±0.3         1.42±0.03         19.4±0.3           Newport 100°s 100FMSP         18.7±0.3         1.42±0.03         19.4±0.3	Kent Golden Lights KFSP	7.6±0.2		8.5±0.3
Kent Golden Lights 100s 100FHP         8.9±0.3         0.83±0.03         9.7±0.4           Kent Golden Lights 100s 100FNP         8.7±0.3         0.80±0.02         9.2±0.5           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KFHP         11.1±0.2         0.82±0.01         12.6±0.2           Kent KFSP         11.8±0.3         0.87±0.02         13.6±0.4           Kent 100s 100FNSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III KFSP         3.4±0.2         0.34±0.01         7.2±0.2           Kent III 100s 100FMP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FMSP         16.9±0.2         1.32±0.02         18.6±0.4           Max 120s 120FMSP         16.9±0.3         1.15±0.02         16.9±0.3           Newport KFMHP         1.59±0.3         1.15±0.02         16.9±0.3           Newport KFMSP         16.9±0.2         1.23±0.02         17.7±0.3           Newport Stripes 100FMFP         18.0±0.3         1.37±0.02         18.7±0.3           Newport Stripes 1			= : : :	$8.9 \pm 0.4$
Kent Golden Lights 100s 100FSP         8.7±0.3         0.80±0.02         9.2±0.5           Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KFPP         11.1±0.2         0.82±0.01         12.6±0.2           Kent KFSP         11.8±0.3         0.87±0.02         13.6±0.4           Kent 100s 100FMSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         149±0.3           Kent III 100s 100FMSP         3.4±0.2         0.34±0.01         4.6±0.2           Kent III 100s 100FMP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III 100s 100FMP         4.9±0.2         0.47±0.01         7.1±0.2           Max 120s 120FMSP         17.2±0.2         18.6±0.4         1.32±0.03         17.6±0.5           Newport KFMHP         1.59±0.3         1.15±0.02         18.6±0.5           Newport KFMSP         16.9±0.3         1.15±0.02         16.9±0.3           Newport 100's 100FMP         18.7±0.3         1.42±0.03         19.4±0.3           Newport KFMSP         15.9±0.3         1.15±0.02         16.9±0.3           Newport 100's 100FMSP         18.0±0.3         1.37±0.02         18.7±0.3           <				$9.7 \pm 0.4$
Kent Golden Lights 100s 100FMSP         9.7±0.4         0.88±0.03         10.5±0.5           Kent KFHP         11.1±0.2         0.82±0.01         12.6±0.2           Kent KFSP         11.8±0.3         0.87±0.02         13.6±0.4           Kent 100s 100FNSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III KFSP         3.4±0.2         0.3±0.01         4.6±0.2           Kent III II KFSP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III II I				9,2±0,5
Kent KFHP         11.1±0.2         0.82±0.01         12.6±0.2           Kent KFSP         11.8±0.3         0.87±0.02         13.6±0.4           Kent 100s 100FMSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent II KFSP         3.4±0.2         0.34±0.01         7.2±0.2           Kent III 100s 100FMP         4.9±0.2         0.4±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FSP         17.2±0.2         1.32±0.02         18.6±0.4           Max 120s 120FMSP         16.9±0.4         1.32±0.03         17.6±0.5           Newport KFMSP         16.9±0.4         1.32±0.02         17.7±0.3           Newport Lights 100°S 100FMPP         18.7±0.3         1.15±0.02         16.9±0.3           Newport 100°s 100FMPP         18.7±0.3         1.42±0.03         17.7±0.3           Newport 100°s 100FMSP         18.0±0.3         1.37±0.02         18.7±0.4           Newport 25's KFMSP         17.1±0.2         1.2±0.02         18.1±0.3           Newport Lights KFMHP         8.3±0.1         0.72±0.01         9.2±0.2           Newport Lights KFMFP         8.1±0.3         0.72±0.01         9.2±0.2           Newport Lights 100°s 100FMFP				
Kent KFSP         11.8±0.3         0.87±0.02         13.6±0.4           Kent 100s 100FSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III KFSP         3.4±0.2         0.34±0.01         4.6±0.2           Kent III 100s 100FMP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FSP         17.2±0.2         13.2±0.03         17.6±0.5           Newport KFMSP         16.9±0.4         1.32±0.03         17.6±0.5           Newport KFMSP         16.9±0.2         1.2±0.02         17.7±0.3           Newport 100°s 100FMPP         18.7±0.3         1.15±0.02         16.9±0.3           Newport 100°s 100FMSP         18.0±0.3         1.37±0.02         18.7±0.3           Newport 100°s 100FMSP         18.0±0.3         1.37±0.02         18.7±0.3           Newport 15.9 KFMSP         17.1±0.2         1.24±0.03         19.4±0.3           Newport Lights KFMSP         17.1±0.2         1.24±0.02         18.1±0.2           Newport Lights KFMSP         8.1±0.3         0.72±0.01         9.2±0.2           Newport Lights 100°s 100FMSP			$0.82 \pm 0.01$	12.6±0.2
Kent 100s 100FSP         13.9±0.3         1.03±0.02         15.1±0.3           Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III KFSP         3.4±0.2         0.34±0.01         4.6±0.2           Kent III 100s 100FMP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FMSP         16.9±0.4         1.32±0.03         17.6±0.5           Newport KFMHP         15.9±0.3         1.15±0.02         16.9±0.3           Newport RFMSP         16.9±0.2         1.23±0.03         17.6±0.5           Newport 100's 100FMPP         18.7±0.3         1.4±0.03         19.4±0.3           Newport 100's 100FMSP         18.0±0.3         1.37±0.02         18.7±0.3           Newport 100's 100FMSP         18.0±0.3         1.37±0.02         18.7±0.4           Newport 25's KFMSP         17.1±0.2         1.24±0.03         19.4±0.3           Newport Lights KFMSP         19.2±0.2         1.45±0.02         19.4±0.3           Newport Lights KFMSP         8.3±0.1         0.72±0.01         9.2±0.2           Newport Lights 100's 100FMHP         8.3±0.1         0.72±0.02         9.0±0.3           Newport Lights 10			$0.87 \pm 0.02$	$13.6 \pm 0.4$
Kent 100s 100FMSP         14.1±0.3         1.04±0.02         14.9±0.3           Kent III KFSP         3.4±0.2         0.34±0.01         4.6±0.2           Kent III 100s 100FHP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FMSP         16.9±0.2         1.32±0.02         18.6±0.4           Max 120s 120FMSP         16.9±0.4         1.32±0.03         17.6±0.5           Newport KFMHP         15.9±0.3         1.15±0.02         16.9±0.3           Newport KFMSP         16.9±0.2         1.23±0.02         17.7±0.3           Newport 100's 100FMHP         18.7±0.3         1.42±0.03         19.4±0.3           Newport 100's 100FMSP         18.0±0.3         1.37±0.02         18.7±0.4           Newport 25's KFMSP         17.1±0.2         1.24±0.02         18.1±0.2           Newport Lights KFMHP         8.3±0.1         0.72±0.01         9.2±0.2           Newport Lights KFMSP         8.1±0.3         0.72±0.01         9.2±0.2           Newport Lights 100's 100FMHP         8.7±0.2         0.81±0.02         9.0±0.3           Newport Stripes 100FHP         11.7±0.2         0.91±0.02         15.5±0.4           Newport Stripes 1			$1.03 \pm 0.02$	$15.1 \pm 0.3$
Kent III KFSP			$1.04 \pm 0.02$	$14.9 \pm 0.3$
Kent III 100s 100FHP         4.9±0.2         0.47±0.01         7.2±0.2           Kent III 100s 100FSP         4.7±0.1         0.44±0.01         7.1±0.2           Max 120s 120FSP         17.2±0.2         1.32±0.02         18.6±0.4           Max 120s 120FMSP         16.9±0.4         1.32±0.03         17.6±0.5           Newport KFMHP         15.9±0.3         1.15±0.02         16.9±0.3           Newport RFMSP         16.9±0.2         1.23±0.02         17.7±0.3           Newport 100°s 100FMSP         18.0±0.3         1.37±0.02         18.7±0.3           Newport 25°s KFMSP         17.1±0.2         1.24±0.02         18.7±0.4           Newport 25°s KFMSP         17.1±0.2         1.24±0.02         18.7±0.4           Newport Lights KFMHP         8.3±0.1         0.72±0.01         9.2±0.2           Newport Lights KFMSP         8.1±0.3         0.72±0.01         9.2±0.2           Newport Lights KFMSP         8.1±0.3         0.72±0.01         9.2±0.2           Newport Lights 100°s 100FMSP         8.7±0.2         0.81±0.02         9.2±0.3           Newport Lights 100°s 100FMSP         8.7±0.2         0.81±0.03         9.2±0.3           Newport Stripes 100FMP         8.7±0.2         0.81±0.03         9.2±0.3           Newport			$0.34 \pm 0.01$	$4.6 \pm 0.2$
Kent III 100s 100FSP       4.7±0.1       0.44±0.01       7.1±0.2         Max 120s 120FSP       17.2±0.2       1.32±0.02       18.6±0.4         Max 120s 120FMSP       16.9±0.4       1.32±0.03       17.6±0.5         Newport KFMHP       15.9±0.3       1.15±0.02       16.9±0.3         Newport KFMSP       16.9±0.2       1.23±0.02       17.7±0.3         Newport 100's 100FMHP       18.7±0.3       1.42±0.03       19.4±0.3         Newport 100's 100FMSP       18.0±0.3       1.37±0.02       18.7±0.4         Newport 25's KFMSP       17.1±0.2       1.24±0.02       18.1±0.2         Newport 25's 100's 100FMSP       19.2±0.2       1.45±0.02       19.4±0.3         Newport Lights KFMSP       8.3±0.1       0.72±0.01       9.2±0.2         Newport Lights 100's 100FMSP       8.7±0.2       0.8±0.02       9.2±0.2         Newport Lights 100's 100FMFP       8.7±0.2       0.8±0.02       9.2±0.3         Newport Lights 100's 100FMSP       8.7±0.4       0.80±0.03       9.2±0.3         Newport Stripes 100FMP       11.7±0.2       0.91±0.02       15.5±0.4         Newport Stripes 100FMP       12.1±0.2       0.90±0.02       16.4±0.4         Newport Stripes Slim Lights 100FMHP       12.1±0.2       0.90±0.02			$0.47 \pm 0.01$	$7.2 \pm 0.2$
Max 120s 120FSP       17.2±0.2       1.32±0.02       18.6±0.4         Max 120s 120FMSP       16.9±0.4       1.32±0.03       17.6±0.5         Newport KFMHP       15.9±0.3       1.15±0.02       16.9±0.3         Newport KFMSP       16.9±0.2       1.23±0.02       17.7±0.3         Newport 100's 100FMSP       18.0±0.3       1.37±0.02       18.7±0.4         Newport 25's KFMSP       17.1±0.2       1.24±0.02       18.1±0.2         Newport 25's 100's 100FMSP       19.2±0.2       1.45±0.02       19.4±0.3         Newport Lights KFMHP       8.3±0.1       0.72±0.01       9.2±0.2         Newport Lights KFMSP       8.1±0.3       0.72±0.02       9.0±0.3         Newport Lights 100's 100FMHP       8.7±0.2       0.81±0.02       9.2±0.2         Newport Lights 100's 100FMSP       8.7±0.4       0.80±0.03       9.2±0.4         Newport Stripes 100FMP       8.7±0.2       0.81±0.02       9.2±0.3         Newport Stripes 100FMP       11.7±0.2       0.91±0.02       15.5±0.4         Newport Stripes Slim Lights 100FMFP       12.1±0.2       0.90±0.02       16.4±0.4         Newport Stripes Slim Lights 100FMFP       9.6±0.2       0.76±0.01       11.3±0.3         Old Gold Filters KFSP       17.2±0.3       1.25±0.02 <td></td> <td></td> <td>$0.44 \pm 0.01$</td> <td>$7.1 \pm 0.2$</td>			$0.44 \pm 0.01$	$7.1 \pm 0.2$
Max 120s 120FMSP       16.9±0.4       1.32±0.03       17.6±0.5         Newport KFMHP       15.9±0.3       1.15±0.02       16.9±0.3         Newport KFMSP       16.9±0.2       1.23±0.02       17.7±0.3         Newport 100's 100FMHP       18.9±0.3       1.42±0.03       19.4±0.3         Newport 100's 100FMSP       18.0±0.3       1.37±0.02       18.7±0.4         Newport 25's KFMSP       17.1±0.2       1.24±0.02       18.1±0.2         Newport 150's 100FMSP       19.2±0.2       1.45±0.02       19.4±0.3         Newport Lights KFMHP       8.3±0.1       0.72±0.01       19.2±0.2         Newport Lights 100's 100FMHP       8.7±0.2       0.81±0.02       9.0±0.3         Newport Lights 100's 100FMHP       8.7±0.2       0.81±0.02       9.2±0.3         Newport Stripes 100FMP       8.7±0.4       0.80±0.03       9.2±0.4         Newport Stripes 100FMP       11.7±0.2       0.91±0.02       15.5±0.4         Newport Stripes Slim Lights 100FMHP       9.6±0.2       0.76±0.01       11.3±0.3         Old Gold Filters KFSP       17.2±0.3       1.25±0.02       18.2±0.5         Old Gold Filter 100's 100FSP       18.4±0.3       1.39±0.02       19.2±0.3         Old Gold Lights KFSP       8.7±0.3       0.77±0.02			$1.32 \pm 0.02$	$18.6 \pm 0.4$
Newport KFMHP			$1.32 \pm 0.03$	$17.6 \pm 0.5$
Newport KFMSP			$1.15 \pm 0.02$	$16.9 \pm 0.3$
Newport 100's 100FMHP			$1.23 \pm 0.02$	$17.7 \pm 0.3$
Newport 100's 100FMSP			$1.42 \pm 0.03$	$19.4 \pm 0.3$
Newport 25's KFMSP			$1.37 \pm 0.02$	$18.7 \pm 0.4$
Newport 25's 100's 100FMSP			$1.24 \pm 0.02$	$18.1 \pm 0.2$
Newport Lights KFMHP         8.3±0.1         0.72±0.01         9.2±0.2           Newport Lights KFMSP         8.1±0.3         0.72±0.02         9.0±0.3           Newport Lights 100's 100FMHP         8.7±0.2         0.81±0.02         9.2±0.3           Newport Lights 100's 100FMSP         8.7±0.4         0.80±0.03         9.2±0.4           Newport Stripes 100FHP         11.7±0.2         0.91±0.02         15.5±0.4           Newport Stripes 100FMHP         12.1±0.2         0.90±0.02         16.4±0.4           Newport Stripes Slim Lights 100FMHP         9.6±0.2         0.76±0.01         11.3±0.3           Old Gold Straights KNFSP         26.0±0.7         1.77±0.03         17.9±0.6           Old Gold Filter KFSP         17.2±0.3         1.25±0.02         18.2±0.5           Old Gold Filter 100's 100FSP         18.4±0.3         1.39±0.02         19.2±0.3           Old Gold Lights KFSP         8.7±0.3         0.77±0.02         9.9±0.4           Old Gold Lights 100s 100FSP         12.0±0.2         0.92±0.02         16.4±0.3           Satin 100FMSP         11.1±0.3         0.94±0.01         13.3±0.4           Satin 100FMSP         11.3±0.2         0.94±0.01         13.3±0.4           Spring 100's 100FMSP         18.2±0.3         1.40±0.03 <t< td=""><td></td><td></td><td>$1.45 \pm 0.02$</td><td>19.4±0.3</td></t<>			$1.45 \pm 0.02$	19.4±0.3
Newport Lights KFMSP       8.1 ± 0.3       0.72 ± 0.02       9.0 ± 0.3         Newport Lights 100's 100FMFP       8.7 ± 0.2       0.81 ± 0.02       9.2 ± 0.3         Newport Lights 100's 100FMSP       8.7 ± 0.4       0.80 ± 0.03       9.2 ± 0.4         Newport Stripes 100FHP       11.7 ± 0.2       0.91 ± 0.02       15.5 ± 0.4         Newport Stripes 100FMHP       12.1 ± 0.2       0.90 ± 0.02       16.4 ± 0.4         Newport Stripes Slim Lights 100FMHP       9.6 ± 0.2       0.76 ± 0.01       11.3 ± 0.3         Old Gold Straights KNFSP       26.0 ± 0.7       1.77 ± 0.03       17.9 ± 0.6         Old Gold Filters KFSP       17.2 ± 0.3       1.25 ± 0.02       18.2 ± 0.5         Old Gold Lights KFSP       18.4 ± 0.3       1.39 ± 0.02       19.2 ± 0.3         Old Gold Lights KFSP       8.7 ± 0.3       0.77 ± 0.02       9.9 ± 0.4         Old Gold Lights 100s 100FSP       12.0 ± 0.2       0.92 ± 0.02       16.4 ± 0.3         Satin 100FSP       11.1 ± 0.3       0.94 ± 0.01       13.3 ± 0.4         Satin 100FMSP       11.3 ± 0.2       0.94 ± 0.02       13.6 ± 0.3         Spring 100's 100FMSP       18.2 ± 0.3       1.40 ± 0.03       18.4 ± 0.4         Triumph KFSP       2.8 ± 0.2       0.30 ± 0.01       3.6 ± 0.2			$0.72 \pm 0.01$	9.2±0.2
Newport Lights 100's 100FMHP       8.7±0.2       0.81±0.02       9.2±0.3         Newport Lights 100's 100FMSP       8.7±0.4       0.80±0.03       9.2±0.4         Newport Stripes 100FHP       11.7±0.2       0.91±0.02       15.5±0.4         Newport Stripes 100FMHP       12.1±0.2       0.90±0.02       16.4±0.4         Newport Stripes Slim Lights 100FMHP       9.6±0.2       0.76±0.01       11.3±0.3         Old Gold Straights KNFSP       26.0±0.7       1.77±0.03       17.9±0.6         Old Gold Filters KFSP       17.2±0.3       1.25±0.02       18.2±0.5         Old Gold Filter 100's 100FSP       18.4±0.3       1.39±0.02       19.2±0.3         Old Gold Lights KFSP       8.7±0.3       0.77±0.02       9.9±0.4         Old Gold Lights 100s 100FSP       12.0±0.2       0.92±0.02       16.4±0.3         Satin 100FSP       11.1±0.3       0.94±0.01       13.3±0.4         Satin 100FMSP       11.3±0.2       0.94±0.02       13.6±0.3         Spring 100's 100FMSP       18.2±0.3       1.40±0.03       18.4±0.4         Triumph KFMSP       2.8±0.2       0.30±0.01       3.6±0.2         Triumph 100s 100FMSP       5.4±0.2       0.50±0.01       7.6±0.3         Trium KFMSP       4.7±0.3       0.46±0.02       <			$0.72 \pm 0.02$	$9.0 \pm 0.3$
Newport Lights 100's 100FMSP $8.7\pm0.4$ $0.80\pm0.03$ $9.2\pm0.4$ Newport Stripes 100FHP $11.7\pm0.2$ $0.91\pm0.02$ $15.5\pm0.4$ Newport Stripes 100FMHP $12.1\pm0.2$ $0.90\pm0.02$ $16.4\pm0.4$ Newport Stripes Slim Lights 100FMHP $9.6\pm0.2$ $0.76\pm0.01$ $11.3\pm0.3$ Old Gold Straights KNFSP $26.0\pm0.7$ $1.77\pm0.03$ $17.9\pm0.6$ Old Gold Filters KFSP $17.2\pm0.3$ $1.25\pm0.02$ $18.2\pm0.5$ Old Gold Filter 100's 100FSP $18.4\pm0.3$ $1.39\pm0.02$ $19.2\pm0.3$ Old Gold Lights KFSP $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.01$ $13.3\pm0.4$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FMSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$			$0.81 \pm 0.02$	$9.2 \pm 0.3$
Newport Stripes 100FHP $11.7\pm0.2$ $0.91\pm0.02$ $15.5\pm0.4$ Newport Stripes 100FMHP $12.1\pm0.2$ $0.90\pm0.02$ $16.4\pm0.4$ Newport Stripes Slim Lights 100FMHP $9.6\pm0.2$ $0.76\pm0.01$ $11.3\pm0.3$ Old Gold Straights KNFSP $26.0\pm0.7$ $1.77\pm0.03$ $17.9\pm0.6$ Old Gold Filters KFSP $17.2\pm0.3$ $1.25\pm0.02$ $18.2\pm0.5$ Old Gold Filter 100's 100FSP $18.4\pm0.3$ $1.39\pm0.02$ $19.2\pm0.3$ Old Gold Lights KFSP $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.01$ $13.3\pm0.4$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP			$0.80 \pm 0.03$	$9.2 \pm 0.4$
Newport Stripes 100FMHP $12.1\pm0.2$ $0.90\pm0.02$ $16.4\pm0.4$ Newport Stripes Slim Lights 100FMHP $9.6\pm0.2$ $0.76\pm0.01$ $11.3\pm0.3$ Old Gold Straights KNFSP $26.0\pm0.7$ $1.77\pm0.03$ $17.9\pm0.6$ Old Gold Filters KFSP $17.2\pm0.3$ $1.25\pm0.02$ $18.2\pm0.5$ Old Gold Filter 100's 100FSP $18.4\pm0.3$ $1.39\pm0.02$ $19.2\pm0.3$ Old Gold Lights KFSP $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.02$ $13.6\pm0.3$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.3$ True 100's 100FSP			$0.91 \pm 0.02$	$15.5 \pm 0.4$
Newport Stripes Slim Lights 100FMHP $9.6\pm0.2$ $0.76\pm0.01$ $11.3\pm0.3$ Old Gold Straights KNFSP $26.0\pm0.7$ $1.77\pm0.03$ $17.9\pm0.6$ Old Gold Filters KFSP $17.2\pm0.3$ $1.25\pm0.02$ $18.2\pm0.5$ Old Gold Filter 100's 100FSP $18.4\pm0.3$ $1.39\pm0.02$ $19.2\pm0.3$ Old Gold Lights KFSP $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.01$ $13.3\pm0.4$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.2$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.90 \pm 0.02$	$16.4 \pm 0.4$
Old Gold Straights KNFSP. $26.0\pm0.7$ $1.77\pm0.03$ $17.9\pm0.6$ Old Gold Filters KFSP. $17.2\pm0.3$ $1.25\pm0.02$ $18.2\pm0.5$ Old Gold Filter 100's 100FSP. $18.4\pm0.3$ $1.39\pm0.02$ $19.2\pm0.3$ Old Gold Lights KFSP. $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP. $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP. $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP. $11.3\pm0.2$ $0.94\pm0.02$ $13.6\pm0.3$ Spring 100's 100FMSP. $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP. $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FSP. $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP. $5.5\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ True KFSP. $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP. $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP. $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.76 \pm 0.01$	$11.3 \pm 0.3$
Old Gold Filters KFSP $17.2 \pm 0.3$ $1.25 \pm 0.02$ $18.2 \pm 0.5$ Old Gold Filter 100's 100FSP $18.4 \pm 0.3$ $1.39 \pm 0.02$ $19.2 \pm 0.3$ Old Gold Lights KFSP $8.7 \pm 0.3$ $0.77 \pm 0.02$ $9.9 \pm 0.4$ Old Gold Lights 100s 100FSP $12.0 \pm 0.2$ $0.92 \pm 0.02$ $16.4 \pm 0.3$ Satin 100FSP $11.1 \pm 0.3$ $0.94 \pm 0.01$ $13.3 \pm 0.4$ Satin 100FMSP $11.3 \pm 0.2$ $0.94 \pm 0.02$ $13.6 \pm 0.3$ Spring 100's 100FMSP $18.2 \pm 0.3$ $1.40 \pm 0.03$ $18.4 \pm 0.4$ Triumph KFSP $2.8 \pm 0.2$ $0.30 \pm 0.01$ $3.6 \pm 0.2$ Triumph 100s 100FSP $3.4 \pm 0.2$ $0.35 \pm 0.02$ $4.4 \pm 0.3$ Triumph 100s 100FMSP $5.4 \pm 0.2$ $0.50 \pm 0.01$ $7.6 \pm 0.3$ True KFSP $4.7 \pm 0.3$ $0.46 \pm 0.02$ $6.1 \pm 0.3$ True KFMSP $4.6 \pm 0.2$ $0.46 \pm 0.01$ $6.1 \pm 0.2$ True 100's 100FSP $6.2 \pm 0.3$ $0.60 \pm 0.02$ $7.0 \pm 0.3$			$1.77 \pm 0.03$	$17.9 \pm 0.6$
Old Gold Filter 100's 100FSP $18.4\pm0.3$ $1.39\pm0.02$ $19.2\pm0.3$ Old Gold Lights KFSP $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.02$ $13.6\pm0.3$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FSP $3.4\pm0.2$ $0.35\pm0.02$ $4.4\pm0.3$ Triumph 100s 100FMSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$	•		$1.25 \pm 0.02$	$18.2 \pm 0.5$
Old Gold Lights KFSP $8.7\pm0.3$ $0.77\pm0.02$ $9.9\pm0.4$ Old Gold Lights 100s 100FSP $12.0\pm0.2$ $0.92\pm0.02$ $16.4\pm0.3$ Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.02$ $13.6\pm0.3$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph 100s 100FSP $3.4\pm0.2$ $0.35\pm0.02$ $4.4\pm0.3$ Triumph 100s 100FMSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$1.39 \pm 0.02$	$19.2 \pm 0.3$
Old Gold Lights 100s 100FSP $12.0 \pm 0.2$ $0.92 \pm 0.02$ $16.4 \pm 0.3$ Satin 100FSP $11.1 \pm 0.3$ $0.94 \pm 0.01$ $13.3 \pm 0.4$ Satin 100FMSP $11.3 \pm 0.2$ $0.94 \pm 0.02$ $13.6 \pm 0.3$ Spring 100's 100FMSP $18.2 \pm 0.3$ $1.40 \pm 0.03$ $18.4 \pm 0.4$ Triumph KFSP $2.8 \pm 0.2$ $0.30 \pm 0.01$ $3.6 \pm 0.2$ Triumph KFMSP $3.4 \pm 0.2$ $0.35 \pm 0.02$ $4.4 \pm 0.3$ Triumph 100s 100FMSP $5.4 \pm 0.2$ $0.50 \pm 0.01$ $7.6 \pm 0.3$ Trium KFSP $4.7 \pm 0.3$ $0.46 \pm 0.02$ $6.1 \pm 0.3$ True KFMSP $4.6 \pm 0.2$ $0.46 \pm 0.01$ $6.1 \pm 0.2$ True 100's 100FSP $6.2 \pm 0.3$ $0.60 \pm 0.02$ $7.0 \pm 0.3$			$0.77 \pm 0.02$	$9.9 \pm 0.4$
Satin 100FSP $11.1\pm0.3$ $0.94\pm0.01$ $13.3\pm0.4$ Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.02$ $13.6\pm0.3$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph KFMSP $3.4\pm0.2$ $0.35\pm0.02$ $4.4\pm0.3$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.52\pm0.02$ $7.8\pm0.2$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.92 \pm 0.02$	$16.4 \pm 0.3$
Satin 100FMSP $11.3\pm0.2$ $0.94\pm0.02$ $13.6\pm0.3$ Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph KFMSP $3.4\pm0.2$ $0.35\pm0.02$ $4.4\pm0.3$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.52\pm0.02$ $7.8\pm0.2$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.94 \pm 0.01$	$13.3 \pm 0.4$
Spring 100's 100FMSP $18.2\pm0.3$ $1.40\pm0.03$ $18.4\pm0.4$ Triumph KFSP $2.8\pm0.2$ $0.30\pm0.01$ $3.6\pm0.2$ Triumph KFMSP $3.4\pm0.2$ $0.35\pm0.02$ $4.4\pm0.3$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.52\pm0.02$ $7.8\pm0.2$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.94 \pm 0.02$	$13.6 \pm 0.3$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			$1.40 \pm 0.03$	$18.4 \pm 0.4$
Triumph KFMSP $3.4\pm0.2$ $0.35\pm0.02$ $4.4\pm0.3$ Triumph 100s 100FSP $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP $5.5\pm0.2$ $0.52\pm0.02$ $7.8\pm0.2$ True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.30 \pm 0.01$	$3.6 \pm 0.2$
Triumph 100s 100FSP. $5.4\pm0.2$ $0.50\pm0.01$ $7.6\pm0.3$ Triumph 100s 100FMSP. $5.5\pm0.2$ $0.52\pm0.02$ $7.8\pm0.2$ True KFSP. $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP. $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP. $6.2\pm0.3$ $0.60\pm0.02$ $7.0\pm0.3$			$0.35 \pm 0.02$	$4.4 \pm 0.3$
True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $6.2\pm0.3$ $6.0\pm0.02$ $7.0\pm0.3$			$0.50 \pm 0.01$	$7.6 \pm 0.3$
True KFSP $4.7\pm0.3$ $0.46\pm0.02$ $6.1\pm0.3$ True KFMSP $4.6\pm0.2$ $0.46\pm0.01$ $6.1\pm0.2$ True 100's 100FSP $6.2\pm0.3$ $6.2\pm0.3$ $6.0\pm0.02$ $7.0\pm0.3$			$0.52 \pm 0.02$	$7.8 \pm 0.2$
True KFMSP $4.6 \pm 0.2$ $0.46 \pm 0.01$ $6.1 \pm 0.2$ True 100's 100FSP $6.2 \pm 0.3$ $6.2 \pm 0.3$ $6.0 \pm 0.02$			$0.46 \pm 0.02$	$6.1 \pm 0.3$
True 100's 100FSP			$0.46 \pm 0.01$	$6.1 \pm 0.2$
True $100\% 100 \text{FMSP}$ $6.5 \pm 0.3$ $0.61 \pm 0.02$ $7.2 \pm 0.4$	True 100's 100FSP	6.2±0.3	$0.60 \pm 0.02$	$7.0 \pm 0.3$
1100 TOO 2 TOO TOOL TOOL TOOL TOOL TOOL TOOL	True 100's 100FMSP	6.5±0.3	$0.61 \pm 0.02$	$7.2 \pm 0.4$

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - Philip Morris Brands

	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
		•	
*Alpine KFMSP		$1.14 \pm 0.02$	$16.0 \pm 0.3$
*Alpine 100s 100FMSP		$1.13 \pm 0.02$	$14.6 \pm 0.3$
Alpine Lights KFMSP		$0.74 \pm 0.02$	$10.6 \pm 0.2$
Alpine Lights 100's 100FMSP		$0.78 \pm 0.01$	$11.2 \pm 0.2$
Benson & Hedges KFHP	15.4±0.4	$1.25 \pm 0.03$	$12.5 \pm 0.4$
Benson & Hedges 100's 100FHP	16.4 ± 0.2	$1.22 \pm 0.02$	$15.3 \pm 0.2$
Benson & Hedges 100's 100FMHP		$1.21 \pm 0.02$	$15.6 \pm 0.3$
Benson & Hedges 100's 100FSP		$1.24 \pm 0.02$	$16.8 \pm 0.3$
Benson & Hedges 100's 100FMSP	$15.8 \pm 0.2$	$1.16 \pm 0.02$	$15.9 \pm 0.3$
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.2±0.2	$0.48 \pm 0.01$	$6.6 \pm 0.2$
Benson & Hedges Deluxe Ultra Lights 100's 100FMHF	5.1±0.2	$0.47 \pm 0.01$	$6.8 \pm 0.2$
Benson & Hedges Lights 100's 100FHP	10.8±0.2	$0.85 \pm 0.02$	$11.6 \pm 0.4$
Benson & Hedges Lights 100's 100FMHP	10.2±0.2	$0.80 \pm 0.02$	$11.5 \pm 0.2$
Benson & Hedges Lights 100's 100FSP	10.6±0.3	$0.84 \pm 0.03$	$12.8 \pm 0.4$
Benson & Hedges Lights 100's 100FMSP		$0.86 \pm 0.02$	$11.7 \pm 0.3$
*Benson & Hedges Multifilter KFSP		$0.90 \pm 0.02$	$11.1 \pm 0.3$
Cambridge Full Flavor KFSP		$1.14 \pm 0.02$	$15.9 \pm 0.2$
Cambridge Full Flavor 100's 100FSP		$1.19 \pm 0.02$	$16.6 \pm 0.4$
Cambridge Lights KFSP		$0.89 \pm 0.02$	$12.7 \pm 0.2$
Cambridge Lights KFMSP		$0.87 \pm 0.02$	$13.0 \pm 0.4$
Cambridge Lights 100's 100FSP		$0.88 \pm 0.01$	$13.6 \pm 0.3$
Cambridge Lights 100's 100FMSP		$0.88 \pm 0.01$	$13.6 \pm 0.3$
Cambridge Ultra Low Tar 100s 100FSP		$0.38 \pm 0.01$	$6.0 \pm 0.2$
English Ovals KNFHP		$1.83 \pm 0.04$	15.3 ± 0.4
Marlboro KFHP		$1.17 \pm 0.02$	14.5±0.4
Marlboro KFSP		$1.18 \pm 0.02$	15.1±0.3
Marlboro KFMSP		$1.16 \pm 0.02$	$15.0 \pm 0.3$
Marlboro 100's 100FHP		$1.23 \pm 0.02$	16.2±0.3
Marlboro 100's 100FSP		$1.21 \pm 0.02$	15,7±0,4
Marlboro 25's KFSP		$1.21 \pm 0.02$	15.4±0.3
Marlboro Lights KFHP		$0.85 \pm 0.01$	12.4±0.3
Mariboro Lights KFMHP		$0.76 \pm 0.02$	11.1±0.3
Marlboro Lights KFSP		0.86±0.02	11.8±0.3
Marlboro Lights 100's 100FHP		0.86±0.02	12.0±0.2
Marlboro Lights 100's 100FMFIP		0.80±0.02 0.81±0.01	11.3±0.2
		$0.86 \pm 0.02$	12.0±0.2
Marlboro Lights 100's 100FSP		$0.80 \pm 0.02$ $0.82 \pm 0.02$	11.9±0.3
Marlboro Lights 25's KFSP			$11.9 \pm 0.2$ $17.3 \pm 0.3$
Marlboro 100's Red 100FHP Marlboro 100's Red 100FSP		1.27±0.02 1.22±0.01	17.5±0.5 15.9±0.2
			$10.9 \pm 0.2$ $10.1 \pm 0.3$
Merit KFHP		$0.62 \pm 0.02$	
Merit KFSP		$0.63 \pm 0.01$	10.2±0.3
Merit KFMSP		$0.64 \pm 0.01$	9.8±0.2
Merit 100's 100FSP		$0.80 \pm 0.02$	12.1±0.3
Merit 100's 100FMSP		$0.78 \pm 0.02$	11.4±0.3
Merit Ultra Lights KFHP	J.L±V.L	$0.49 \pm 0.01$	$6.4 \pm 0.2$
*Retested brand			

*Retested brand

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Diand	me/we	1115/015	
Merit Ultra Lights KFSP	4.8±0.2	0.46±0.02	6.3±0.1
Merit Ultra Lights KFMSP		$0.46 \pm 0.01$	$6.2 \pm 0.2$
Merit Ultra Lights 100's 100FHP		$0.58 \pm 0.02$	$7.1 \pm 0.2$
Merit Ultra Lights 100's 100FSP		$0.53 \pm 0.01$	$7.1 \pm 0.2$
Merit Ultra Lights 100's 100FMSP		$0.51 \pm 0.01$	$7.2 \pm 0.3$
Parliament Lights KFHP		$0.74 \pm 0.01$	$9.9 \pm 0.3$
Parliament Lights KFSP		$0.76 \pm 0.01$	$10.7 \pm 0.3$
Parliament Lights 100's 100FSP		$1.02 \pm 0.02$	$12.8 \pm 0.3$
*Philip Morris RNFSP		$1.43 \pm 0.03$	$13.6 \pm 0.5$
Philip Morris Commander KNFSP		$1.65 \pm 0.03$	$16.1 \pm 0.5$
Philip Morris International 100FHP		$1.25 \pm 0.02$	$16.1 \pm 0.3$
Philip Morris International 100FMHP		$1.28 \pm 0.02$	$15.6 \pm 0.2$
Players RNFHP	24.7±0.4	$1.74 \pm 0.03$	15.4±0.4
Players KFHP	12.0±0.3	$0.87 \pm 0.02$	$12.6 \pm 0.3$
Players KFMHP	11.8±0.2	$0.86 \pm 0.01$	$12.6 \pm 0.2$
Players 100's 100FHP		$1.04 \pm 0.02$	$12.9 \pm 0.2$
Players 100's 100FMHP		$1.03 \pm 0.02$	$12.5 \pm 0.2$
Players Lights 25's KFSP	$10.4 \pm 0.1$	$0.77 \pm 0.01$	$11.3 \pm 0.2$
Players Lights 25's KFMSP	10.1 ± 0.2	$0.74 \pm 0.02$	$11.2 \pm 0.2$
Players 25's Lights 100's 100FSP	11.8±0.2	$0.88 \pm 0.02$	$13.7 \pm 0.3$
Players 25's Lights 100's 100FMSP		$0.87 \pm 0.01$	$13.5 \pm 0.3$
Saratoga 120's 120FHP		$1.17 \pm 0.02$	$15.0 \pm 0.4$
Saratoga 120's 120FMHP		$1.13 \pm 0.02$	$14.3 \pm 0.3$
Virginia Slims 100FSP		$1.12 \pm 0.02$	$13.2 \pm 0.2$
Virginia Slims 100FMSP		$1.15 \pm 0.02$	$13.3 \pm 0.3$
Virginia Slims Lights 100FHP		$0.72 \pm 0.02$	$9.6 \pm 0.3$
Virginia Slims Lights 100FMHP		$0.71 \pm 0.01$	$9.6 \pm 0.2$
Virginia Slims Lights 120's 120FHP		$1.13 \pm 0.02$	$13.9 \pm 0.4$
Virginia Slims Lights 120's 120FMHP		$1.09 \pm 0.02$	$13.3 \pm 0.3$
Virginia Slims Ultra Lights 100 100FHP		$0.47 \pm 0.01$	$5.4 \pm 0.2$
Virginia Slims Ultra Lights 100 100FMHP		$0.45 \pm 0.02$	$5.2 \pm 0.2$

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#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - R.J. Reynolds Brands

	"Tar"	"Nicotine"	co
Brand	mg/cig	mg/cig	mg/cig
Camel RNFSP	22 5+0 4	$1.42 \pm 0.03$	$14.0 \pm 0.3$
Camel Filters KFHP		$1.04 \pm 0.02$	16.1±0.3
Camel Filters KFSP		$0.96 \pm 0.02$	14.3±0.3
Camel Filters 100's 100FSP		1.04±0.02	18.9±0.3
Camel Lights KFHP		0.62±0.01	11.6±0.2
Camel Lights KFSP		0.66±0.01	$11.9 \pm 0.2$
Camel Lights 100's 100FSP		0.78±0.01	13.7±0.3
Century 25's (25) KFSP		0.97±0.02	17.4±0.4
Century 25's 100's 100FSP		1.14±0.02	20.4±0.3
Century 25's Lights (25) KFSP		0.68±0.01	11.0±0.3
Century 25's Lights 100's 100FSP		$0.89 \pm 0.02$	13.0±0.3
Century 25's Lights 100's 100FMSP		$0.82 \pm 0.02$	12.5±0.4
Doral Full Flavor KFSP		1.02±0.03	16.5±0.4
Doral Full Flavor KFMSP		1.09±0.02	16.1±0.3
Doral Full Flavor 100's 100FSP		$1.11 \pm 0.03$	18.1±0.4
Doral Full Flavor 100's 100FMSP		1.13±0.02	17.3±0.2
Doral Lights KFSP		$0.72 \pm 0.02$	11.2±0.3
Doral Menthol Lights KFMSP		0.73±0.02	11.4±0.4
Doral Lights 100's 100FSP		$0.73 \pm 0.02$ $0.83 \pm 0.02$	10.5±0.4
Doral Menthol Lights 100's 100FMSP	10.0±0.3	0.88±0.02	10.5±0.4 11.2±0.3
Doral Mentiol Lights 100's 100FMSF	40±0.2	$0.46 \pm 0.01$	$7.8 \pm 0.3$
Doral Ultra Lights 100's 100FSP		0.40±0.01 0.89±0.02	7.8±0.3 14.9±0.3
Magna KFHP			13.9±0.3
Magna KFSP		0.93±0.01 0.65±0.02	$13.9 \pm 0.3$ $13.4 \pm 0.3$
Magna Lites KFSP		$0.03 \pm 0.02$ $1.21 \pm 0.02$	21.8±0.3
More 120s 120FSP		$1.32 \pm 0.02$	$21.9 \pm 0.5$
More 120s 120FMSP		$0.84 \pm 0.02$	$21.9\pm0.3$ $11.1\pm0.3$
More Lights 100s 100FHP			
More Lights 100s 100FMHP		0.72±0.01	10.8±0.2 18.8±0.4
More Lights 120s 120FSP		0.91±0.02	
More Lights 120s 120FMSP		0.99 ± 0.02	19.5±0.5
More White Lights 120s 120FSP		0.74±0.01	13.5±0.3
More White Lights 120s 120FMSP		$0.81 \pm 0.02$	14.8±0.3
Now KFHP		< 0.05	< 0.5
Now KFSP		0.13±0.01	2.0±0.1
Now KFMSP		0.12±0.01	2.2±0.1
Now 100s 100FHP		< 0.05	< 0.5
Now 100s 100FSP		$0.20 \pm 0.01$	2.8±0.1
Now 100s 100FMSP		$0.25 \pm 0.01$	4.0±0.2
Ritz 100 100FHP		$0.77 \pm 0.02$	10.7±0.3
Ritz 100 100FMHP		$0.78 \pm 0.01$	$11.0 \pm 0.3$
Salem KFMSP		1.16±0.02	16.7±0.2
Salem 100's 100FMSP		$1.15 \pm 0.02$	16.0±0.4
Salem Lights KFMSP		$0.70 \pm 0.01$	$12.0 \pm 0.3$
Salem Lights 100's 100FMHP		$0.83 \pm 0.01$	11.3±0.3
Salem Lights 100's 100FMSP		$0.68 \pm 0.02$	$10.0 \pm 0.2$
Salem Slim Lights 100's 100FMHP		$0.75 \pm 0.01$	$10.0 \pm 0.2$
Salem Ultra Lights KFMSP	4.9±0.1	$0.44 \pm 0.01$	$7.6 \pm 0.2$

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Salem Ultra Lights 100's 100FMSP	$4.5 \pm 0.2$	$0.41 \pm 0.01$	$7.0 \pm 0.3$
Vantage KFSP	10.3 ± 0.1	$0.73 \pm 0.01$	$13.4 \pm 0.2$
Vantage KFMSP		$0.68 \pm 0.01$	$12.2 \pm 0.2$
Vantage 100s 100FSP	$8.5 \pm 0.1$	$0.64 \pm 0.01$	$11.4 \pm 0.2$
Vantage Menthol 100s 100FMSP	$8.2 \pm 0.2$	$0.60 \pm 0.01$	$12.6 \pm 0.3$
Vantage Excell 100's 100FSP	$8.8 \pm 0.2$	$0.72 \pm 0.02$	$9.2 \pm 0.3$
Vantage Ultra Lights KFSP		$0.43 \pm 0.01$	$7.4 \pm 0.2$
Vantage Ultra Lights 100s 100FSP		$0.44 \pm 0.01$	$8.0 \pm 0.2$
Winston KFHP		$1.05 \pm 0.02$	$15.8 \pm 0.3$
Winston KFSP	16.6±0.3	$1.11 \pm 0.02$	$16.2 \pm 0.3$
Winston 100's 100FSP		$1.05 \pm 0.01$	$19.1 \pm 0.3$
Winston Lights KFHP		$0.62 \pm 0.01$	$11.5 \pm 0.2$
Winston Lights KFSP	$9.5 \pm 0.2$	$0.66 \pm 0.02$	$11.4 \pm 0.2$
Winston Lights 100's 100FHP		$0.72 \pm 0.02$	$12.3 \pm 0.4$
Winston Lights 100's 100FSP		$0.79 \pm 0.01$	$12.7 \pm 0.2$
Winston Ultra Lights KFSP	5.4±0.1	$0.47 \pm 0.01$	$8.5 \pm 0.2$
Winston Ultra Lights 100's 100FSP		$0.43 \pm 0.01$	$8.3 \pm 0.2$

#### Tobacco Institute Testing Laboratory Market Sample 32 Test Results - Larus & Brother Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
			•
Craven "A" KFHP	15.6±0.2	$1.19 \pm 0.02$	$16.3 \pm 0.3$
Craven "A" Filter Standard Size RFHP	18.7±0.4	$1.54 \pm 0.03$	$14.1 \pm 0.3$
Dunhill International 100FHP	16.9±0.2	$1.56 \pm 0.03$	$17.3 \pm 0.3$
Dunhill Menthol 100FMHP	14.8±0.2	$1.26 \pm 0.02$	$17.1 \pm 0.2$
Dunhill Menthol Mild 100FMHP	10.8 $\pm$ 0.4	$0.97 \pm 0.03$	$13.0 \pm 0.4$
Dunhill International Superior Mild 100FHP	8.5±0.3	$0.79 \pm 0.02$	$9.8 \pm 0.3$
Rothmans KFHP		$1.36 \pm 0.02$	$18.9 \pm 0.3$
Rothmans Special Mild KFHP	$14.1 \pm 0.3$	$1.11 \pm 0.02$	$15.9 \pm 0.2$
St. Moritz Filter 100FSP		$1.09 \pm 0.02$	$15.5 \pm 0.2$
St. Moritz Menthol 100FMSP	14.2±0.3	$0.93 \pm 0.02$	$16.0 \pm 0.4$

### Appendix B

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
			***************************************
Carlton KFMSP	< 0.5	$0.09 \pm 0.01$	$1.3 \pm 0.1$
Carlton 100's 100FHP		$0.09 \pm 0.00$	$0.9 \pm 0.1$
Carlton 100's 100FMHP	< 0.5	$0.09 \pm 0.00$	$0.9 \pm 0.1$
Carlton Ultra KFHP		< 0.05	< 0.5
Now KFHP		< 0.05	< 0.5
Now 100s 100FHP		< 0.05	< 0.5
Carlton 83 KFHP		$0.12 \pm 0.01$	$1.6 \pm 0.1$
Now KFSP		$0.13 \pm 0.01$	2.0±0.1
Now KFMSP		$0.12 \pm 0.01$	$2.2 \pm 0.1$
Carlton KFSP		$0.13 \pm 0.01$	$2.0 \pm 0.1$
Now 100s 100FSP		$0.20 \pm 0.01$	$2.8 \pm 0.1$
Kool Ultra KFMSP		$0.18 \pm 0.01$	$2.1 \pm 0.1$
Now 100s 100FMSP		$0.25 \pm 0.01$	$4.0 \pm 0.2$
Carlton 100's 100FSP		$0.29 \pm 0.01$	$3.8 \pm 0.2$
Triumph KFSP		$0.30 \pm 0.01$	$3.6 \pm 0.2$
Kent III KFSP		$0.34 \pm 0.01$	$4.6 \pm 0.2$
Triumph KFMSP	3.4±0.2	$0.35 \pm 0.02$	$4.4 \pm 0.3$
Cambridge Ultra Low Tar 100s 100FSP		$0.38 \pm 0.01$	$6.0 \pm 0.2$
Carlton 100's 100FMSP		$0.42 \pm 0.01$	6.2±0.2
Salem Ultra Lights 100's 100FMSP		$0.41 \pm 0.01$	$7.0 \pm 0.3$
True KFMSP		$0.46 \pm 0.01$	$6.1 \pm 0.2$
True KFSP		$0.46 \pm 0.02$	$6.1 \pm 0.3$
Kent III 100s 100FSP		$0.44 \pm 0.01$	$7.1 \pm 0.2$
Virginia Slims Ultra Lights 100 100FMHP		$0.45 \pm 0.02$	$5.2 \pm 0.2$
Merit Ultra Lights KFMSP		$0.46 \pm 0.01$	$6.2 \pm 0.2$
Merit Ultra Lights KFSP		$0.46 \pm 0.02$	$6.3 \pm 0.1$
Winston Ultra Lights 100's 100FSP		$0.43 \pm 0.01$	$8.3 \pm 0.2$
Kool Ultra 100's 100FMSP		$0.43 \pm 0.02$	$5.0 \pm 0.2$
Salem Ultra Lights KFMSP		$0.44 \pm 0.01$	$7.6 \pm 0.2$
Kent III 100s 100FHP		$0.47 \pm 0.01$	$7.2 \pm 0.2$
Virginia Slims Ultra Lights 100 100FHP		$0.47 \pm 0.01$	$5.4 \pm 0.2$
Doral Ultra Lights 100's 100FSP		$0.46 \pm 0.01$	$7.8 \pm 0.3$
Vantage Ultra Lights 100s 100FSP		$0.44 \pm 0.01$	$8.0 \pm 0.2$
Vantage Ultra Lights KFSP	5.0±0.1	$0.43 \pm 0.01$	$7.4 \pm 0.2$
Merit Ultra Lights KFHP		$0.49 \pm 0.01$	$6.4 \pm 0.2$
Tareyton Lights KFSP	5.1±0.3	$0.44 \pm 0.02$	$5.7 \pm 0.4$
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP.	5.1±0.2	$0.47 \pm 0.01$	$6.8 \pm 0.2$
Merit Ultra Lights 100's 100FMSP	5.2±0.2	$0.51 \pm 0.01$	$7.2 \pm 0.3$
Savvy Ultra Lights 100's 100FSP		$0.54 \pm 0.01$	$5.2 \pm 0.1$
Benson & Hedges Deluxe Ultra Lights 100's 100FHP		$0.48 \pm 0.01$	$6.6 \pm 0.2$
Eve Ultra Lights 120's 120FMHP		$0.58 \pm 0.02$	$3.9 \pm 0.2$
Merit Ultra Lights 100's 100FSP		$0.53 \pm 0.01$	$7.1 \pm 0.2$
Triumph 100s 100FSP		$0.50 \pm 0.01$	$7.6 \pm 0.3$
Eve Ultra Lights 120's 120FHP		$0.58 \pm 0.02$	$4.0 \pm 0.1$
Winston Ultra Lights KFSP		$0.47 \pm 0.01$	$8.5 \pm 0.2$
Triumph 100s 100FMSP	5.5±0.2	$0.52 \pm 0.02$	7.8±0.2
Pyramid Ultra Lights 100's 100FSP	5.6±0.1	$\boldsymbol{0.57 \pm 0.01}$	$5.1 \pm 0.1$
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	"Tar"	"Nicotine"	CO
<u>Brand</u>	mg/cig	mg/cig	mg/cig
	# A . A .	0.50.000	71.00
Merit Ultra Lights 100's 100FHP	5.8±0.1	0.58±0.02	7.1±0.2
Cariton 120's 120FMSP		$0.59 \pm 0.02$	5.1±0.1
Carlton 120's 120FSP		0.61±0.02	5.5±0.2
True 100's 100FSP		0.60±0.02	7.0±0.3 7.2±0.4
True 100's 100FMSP		$0.61 \pm 0.02$	
Kent Golden Lights KFSP		$0.69 \pm 0.02$	8.5±0.3
Merit KFHP		0.62±0.02	$10.1 \pm 0.3$
Merit KFSP		$0.63 \pm 0.01$	10.2±0.3
Merit KFMSP		0.64±0.01	9.8±0.2
Tareyton Long Lights 100FSP		0.68±0.02	8.8±0.4
Kent Golden Lights KFHP	8.1±0.2	$0.71 \pm 0.02$	9.2±0.3
Kool Lights KFMSP		$0.67 \pm 0.02$	9.0±0.2
Newport Lights KFMSP		0.72±0.02	9.0±0.3 8.9±0.4
Kent Golden Lights KFMSP	8.1±0.3	0.73±0.02	
Belair 100's 100FMSP		0.62±0.01	8.7±0.2
Vantage Menthol 100s 100FMSP		$0.60 \pm 0.01$	12.6±0.3
Salem Lights 100's 100FMSP	8.2±0.2	$0.68 \pm 0.02$	10.0±0.2
L & M Long Lights 100FSP		$0.85 \pm 0.02$	6.8±0.2
Newport Lights KFMHP	8.3±0.1	0.72±0.01	9.2±0.2
Lucky Strike Lights KFSP		$0.68 \pm 0.01$	10.1±0.3
Vantage 100s 100FSP	$8.5 \pm 0.1$	$0.64 \pm 0.01$	$11.4 \pm 0.2$
Dunhill International Superior Mild 100FHP		$0.79 \pm 0.02$	9.8±0.3
Virginia Slims Lights 100FMHP		$0.71 \pm 0.01$	9.6±0.2
Virginia Slims Lights 100FHP	8.7±0.2	$0.72 \pm 0.02$	9.6±0.3
Newport Lights 100's 100FMHP	8.7±0.2	$0.81 \pm 0.02$	9.2±0.3
Newport Lights 100's 100FMSP	8.7±0.4	$0.80 \pm 0.03$	9.2±0.4
Kool Lights 100's 100FMSP		$0.74 \pm 0.02$	10.0±0.4
Old Gold Lights KFSP	8.7±0.3	$0.77 \pm 0.02$	$9.9 \pm 0.4$
Kent Golden Lights 100s 100FSP		$0.80 \pm 0.02$	9.2±0.5
Vantage Excell 100's 100FSP		$0.72 \pm 0.02$	9.2±0.3
Lucky Strike Lights 100's 100FSP	8.9±0.2	$0.76 \pm 0.02$	$9.8 \pm 0.3$
Kent Golden Lights 100s 100FHP	8.9±0.3	$0.83 \pm 0.03$	$9.7 \pm 0.4$
Malibu Lights 100's 100FSP	8.9±0.2	$0.75 \pm 0.02$	$10.5 \pm 0.2$
Falcon Lights 100's 100FMSP	9.0±0.3	$0.75 \pm 0.02$	$10.8 \pm 0.3$
Parliament Lights KFHP	9.2±0.2	$0.74 \pm 0.01$	$9.9 \pm 0.3$
Alpine Lights KFMSP	9.3±0.2	$0.74 \pm 0.02$	$10.6 \pm 0.2$
Pall Mall Red Lights 100's 100FSP	9.3±0.2	$0.79 \pm 0.01$	$9.6 \pm 0.2$
Magna Lites KFSP		$0.65 \pm 0.02$	$13.4 \pm 0.3$
Camel Lights KFSP	9.4±0.1	$0.66 \pm 0.01$	$11.9 \pm 0.2$
Parliament Lights KFSP	9.4±0.2	$0.76 \pm 0.01$	$10.7 \pm 0.3$
Camel Lights KFHP	9.4±0.2	$0.62 \pm 0.01$	$11.6 \pm 0.2$
Salem Lights KFMSP	9.4±0.2	$0.70 \pm 0.01$	$12.0 \pm 0.3$
Century 25's Lights (25) KFSP	9.4±0.2	$0.68 \pm 0.01$	$11.0 \pm 0.3$
Capri 100FMHP	9.5±0.2	$0.75 \pm 0.02$	$6.3 \pm 0.2$
More Lights 100s 100FMHP	9.5±0.2	$0.72 \pm 0.01$	$10.8 \pm 0.2$
Alpine Lights 100's 100FMSP	9.5±0.1	$0.78 \pm 0.01$	$11.2 \pm 0.2$
Salem Slim Lights 100's 100FMHP	9.5±0.2	$0.75 \pm 0.01$	$10.0 \pm 0.2$
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	"Tar"	"Nicotine"	CO
Brand	mg/cig	mg/cig	mg/cig
Winston Lights KFSP	9.5±0.2	$0.66 \pm 0.02$	$11.4 \pm 0.2$
Winston Lights KFHP		$0.62 \pm 0.01$	$11.5 \pm 0.2$
Malibu Lights KFSP		$0.76 \pm 0.01$	10.2±0.3
Capri 100FHP	9.6±0.2	$0.80 \pm 0.02$	6.5±0.2
Newport Stripes Slim Lights 100FMHP	9.6±0.2	0.76±0.01	11.3±0.3
Merit 100's 100FMSP		$0.78 \pm 0.02$	11.4±0.3
Kent Golden Lights 100s 100FMSP		0.88±0.03	10.5±0.5
Merit 100's 100FSP		$0.80 \pm 0.02$	$12.1 \pm 0.3$
Marlboro Lights KFMHP		$0.76 \pm 0.02$	11.1±0.3
Vantage KFMSP		$0.68 \pm 0.01$	12.2±0.2
Doral Lights KFSP		$0.72 \pm 0.02$	11.2±0.3
Ritz 100 100FHP		$0.77 \pm 0.02$	$10.7 \pm 0.3$
More White Lights 120s 120FSP		$0.74 \pm 0.01$	13.5±0.3
Winston Lights 100's 100FHP		$0.72 \pm 0.02$	12.3±0.4
Doral Menthol Lights KFMSP		$0.73 \pm 0.02$	$11.4 \pm 0.4$
Marlboro Lights 100's 100FMHP		$0.81 \pm 0.01$	$11.3 \pm 0.2$
Chesterfield Lights KFSP		$0.79 \pm 0.01$	$11.6 \pm 0.2$
Savvy 100's Lights 100FSP		$0.87 \pm 0.02$	$10.7 \pm 0.2$
Players Lights 25's KFMSP	$10.1\pm0.2$	$0.74 \pm 0.02$	$11.2 \pm 0.2$
Benson & Hedges Lights 100's 100FMHP		$0.80 \pm 0.02$	11.5±0.2
Pall Mall Red Lights KFSP		$0.82 \pm 0.01$	$10.5 \pm 0.2$
Pall Mall Lights 100's 100FSP		$0.85 \pm 0.02$	$11.8 \pm 0.3$
More White Lights 120s 120FMSP		$0.81 \pm 0.02$	$14.8 \pm 0.3$
Doral Lights 100's 100FSP		$0.83 \pm 0.02$	$10.5 \pm 0.4$
Savvy 100's Lights 100FMSP		$0.88 \pm 0.02$	$10.9 \pm 0.2$
Chesterfield Lights 100s 100FSP		$0.86 \pm 0.01$	$11.3 \pm 0.3$
Vantage KFSP	10.3±0.1	$0.73 \pm 0.01$	$13.4 \pm 0.2$
Falcon Lights KFMSP		$0.79 \pm 0.02$	$12.0 \pm 0.4$
Players Lights 25's KFSP	10.4 ± 0.1	$0.77 \pm 0.01$	$11.3 \pm 0.2$
More Lights 100s 100FHP		$0.84 \pm 0.02$	$11.1 \pm 0.3$
Belair KFMSP	10.5±0.2	$0.82 \pm 0.02$	9.6±0.2
Benson & Hedges Lights 100's 100FMSP	10.6±0.2	$0.86 \pm 0.02$	$11.7 \pm 0.3$
Benson & Hedges Lights 100's 100FSP	10.6±0.3	$0.84 \pm 0.03$	$12.8 \pm 0.4$
Marlboro Lights 100's 100FSP	$10.7\pm0.2$	$0.86 \pm 0.02$	$12.0 \pm 0.3$
Ritz 100 100FMHP		$0.78 \pm 0.01$	$11.0 \pm 0.3$
Dunhill Menthol Mild 100FMHP	10.8 ± 0.4	$0.97 \pm 0.03$	$13.0 \pm 0.4$
Benson & Hedges Lights 100's 100FHP	, 10.8±0.2	$0.85 \pm 0.02$	$11.6 \pm 0.4$
Mariboro Lights 100's 100FHP		$0.86 \pm 0.02$	$12.0 \pm 0.2$
Salem Lights 100's 100FMHP	10.8 ± 0.2	$0.83 \pm 0.01$	$11.3 \pm 0.3$
Falcon Lights KFSP		$0.74 \pm 0.02$	$11.0 \pm 0.3$
Doral Menthol Lights 100's 100FMSP		$0.88 \pm 0.02$	$11.2 \pm 0.3$
Camel Lights 100's 100FSP		$0.78 \pm 0.01$	$13.7 \pm 0.3$
Marlboro Lights 25's KFSP		$0.82 \pm 0.02$	$11.9 \pm 0.2$
Satin 100FSP		$0.94 \pm 0.01$	$13.3 \pm 0.4$
Kent KFHP		$0.82 \pm 0.01$	$12.6 \pm 0.2$
Winston Lights 100's 100FSP		$0.79 \pm 0.01$	$12.7 \pm 0.2$
Century 25's Lights 100's 100FMSP		$0.82 \pm 0.02$	$12.5 \pm 0.4$
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	"Tar"	"Nicotine"	CO
<b>Brand</b>	mg/cig_	mg/cig	mg/cig
The state of the s	11.0   0.0	0.054.0.01	12.4±0.3
Marlboro Lights KFHP		$0.85 \pm 0.01$	12.4±0.5 14.2±0.4
Falcon Lights 100's 100FSP	11.2±0.3	$0.79 \pm 0.02$	
Marlboro Lights KFSP	11.3±0.3	$0.86 \pm 0.02$	11.8±0.3
Viceroy Lights KFSP	11.3±0.2	$0.87 \pm 0.02$	12.7±0.3
Satin 100FMSP		0.94±0.02	13.6±0.3
*Benson & Hedges Multifilter KFSP		0.90±0.02	11.3±0.3
Raleigh Lights KFSP	11.4±0.3	$0.89 \pm 0.02$	12.5±0.3
Players 25's Lights 100's 100FMSP		0.87±0.01	13.5±0.3
Kool Milds KFMHP		$0.87 \pm 0.01$	11.4±0.2
Malibu Menthol 100's 100FMSP		$0.93 \pm 0.02$	12.1±0.4
Century 25's Lights 100's 100FSP	11.5±0.2	$0.89 \pm 0.02$	13.0±0.3
Cambridge Lights 100's 100FMSP	11.5±0.2	$0.88 \pm 0.01$	13.6±0.3
Richland Lights (25) KFSP	11.6±0.3	$0.90 \pm 0.02$	12.6±0.3
Newport Stripes 100FHP	11.7±0.2	$0.91 \pm 0.02$	$15.5 \pm 0.4$
Cambridge Lights 100's 100FSP		$0.88 \pm 0.01$	13.6±0.3
Players 25's Lights 100's 100FSP		$0.88 \pm 0.02$	$13.7 \pm 0.3$
Players KFMHP	11.8±0.2	$0.86 \pm 0.01$	$12.6 \pm 0.2$
L & M 30's Lights 100's 100FSP	11.9±0.2	$1.01 \pm 0.02$	$9.9 \pm 0.3$
Richland 20's Lights KFSP	11.9±0.2	$0.91 \pm 0.01$	$12.5 \pm 0.3$
American Lights KFSP	12.0 $\pm$ 0.2	$0.91 \pm 0.01$	$12.7 \pm 0.2$
Old Gold Lights 100s 100FSP	12.0±0.2	$0.92 \pm 0.02$	16.4±0.3
Lucky Strike KFHP	12.0±0.2	$0.92 \pm 0.02$	$12.8 \pm 0.2$
Viceroy Lights 100's 100FSP	12.0±0.3	$0.92 \pm 0.02$	$13.8 \pm 0.3$
Cambridge Lights KFMSP	12.0±0.3	$0.87 \pm 0.02$	$13.0 \pm 0.4$
Kent KFSP	11.8±0.3	$0.87 \pm 0.02$	$13.6 \pm 0.4$
Players KFHP	12.0 $\pm$ 0.3	$0.87 \pm 0.02$	$12.6 \pm 0.3$
Capri 120's 120FMHP	12.1±0.2	$0.96 \pm 0.02$	$7.5 \pm 0.2$
Newport Stripes 100FMHP		$0.90 \pm 0.02$	$16.4 \pm 0.4$
More Lights 120s 120FSP	12.1±0.2	$0.91 \pm 0.02$	$18.8 \pm 0.4$
Kool Milds 100's 100FMSP		$0.95 \pm 0.02$	$13.0 \pm 0.3$
Parliament Lights 100's 100FSP		1,02±0.02	12.8±0.3
Kool Milds KFMSP		$0.94 \pm 0.03$	$12.6 \pm 0.2$
American Lights 100's 100FSP		$0.97 \pm 0.02$	13.2±0.4
Silva Thins Menthol 100FMHP	12 3 ± 0.2	$0.99 \pm 0.02$	11.9±0.3
Prince Lights KFSP		1.08±0.02	12.4±0.3
Raleigh Lights 100's 100FSP	12.3±0.5	0.92±0.01	14.6±0.3
Richland 20's Lights 100's 100FSP	12.3±0.2	$0.91 \pm 0.02$	14.0±0.3
Luciand 20 8 Lights 100 8 100 PSF	12.2±0.3	$0.92 \pm 0.02$	12.8±0.4
Lucky Strike KFSPLucky Strike Filters 100's 100FSP	12.4±0.3	$0.96 \pm 0.02$	13.0±0.3
		$0.89 \pm 0.02$	12.7±0.2
Cambridge Lights KFSP	12.4±0.2	$1.01 \pm 0.02$	11.8±0.2
Silva Thins Filters 100FHP	12.4±0.2	$0.99 \pm 0.02$	19.5±0.2
More Lights 120s 120FMSP	12.0±0.3		19.5±0.5 14.4±0.3
Richland Lights (25) 100's 100FSP	12.0±0.2	$0.95 \pm 0.02$	14.4±0.3 11.4±0.3
Lark Lights KFSP		$1.01 \pm 0.03$	$11.4 \pm 0.3$ $10.9 \pm 0.2$
Eve Slim Lights 100's 100FHP	12.7±0.2	$1.03 \pm 0.02$	10,7 ± 0.2

*Retested brand

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Eve Lights 120's 120FHP	12.8±0.3	$1.11 \pm 0.02$	$11.4 \pm 0.3$
Eve Slim Lights 100's 100FMHP		$1.03 \pm 0.02$	$10.7 \pm 0.3$
Eve Lights 120's 120FMHP		$1.14 \pm 0.03$	$11.5 \pm 0.3$
Lark Light 100's 100FSP		$1.07 \pm 0.02$	$12.5 \pm 0.4$
Pyramid Lights 100's 100FSP		$1.14 \pm 0.02$	$14.5 \pm 0.2$
Magna KFSP		$0.93 \pm 0.01$	$13.9 \pm 0.3$
Pyramid Lights KFSP	13.5±0.2	$1.06 \pm 0.02$	$12.9 \pm 0.3$
L & M KFSP		$1.05 \pm 0.02$	13.0±0.3
L & M KFHP		$1.07 \pm 0.02$	$12.9 \pm 0.2$
Virginia Slims Lights 120's 120FMHP		$1.09 \pm 0.02$	$13.3 \pm 0.3$
L & M Super 100 100FSP		$1.09 \pm 0.02$	$14.6 \pm 0.3$
Magna KFHP	13.9±0.2	$0.89 \pm 0.02$	$14.9 \pm 0.3$
Kent 100s 100FSP		$1.03 \pm 0.02$	$15.1 \pm 0.3$
Harley Davidson KFSP		$0.99 \pm 0.01$	16.0±0.2
Tareyton 100's 100FSP		$1.02 \pm 0.02$	$16.7 \pm 0.3$
Players 100's 100FMHP		$1.03 \pm 0.02$	$12.5 \pm 0.2$
Capri 120's 120FHP		$1.12 \pm 0.02$	$9.8 \pm 0.3$
Lark KFSP		$1.08 \pm 0.02$	$12.3 \pm 0.2$
Rothmans Special Mild KFHP		$1.11 \pm 0.02$	$15.9 \pm 0.2$
Kent 100s 100FMSP		$1.04 \pm 0.02$	$14.9 \pm 0.3$
Players 100's 100FHP		$1.04 \pm 0.02$	$12.9 \pm 0.2$
Tareyton KFSP		$0.99 \pm 0.02$	15.6±0.3
St. Moritz Menthol 100FMSP	14.2+0.3	$0.93 \pm 0.02$	16.0±0.4
Virginia Slims Lights 120's 120FHP		$1.13 \pm 0.02$	13.9±0.4
Malibu 100's 100FSP		1.12±0.03	13.7±0.5
Lark 100FSP		1.17±0.02	13.6±0.2
Camel Filters KFSP		$0.96 \pm 0.02$	14.3±0.3
Dunhill Menthol 100FMHP		1.26±0.02	17.1±0.2
Saratoga 120's 120FMHP		$1.13 \pm 0.02$	14.3±0.3
St. Moritz Filter 100FSP		$1.09 \pm 0.02$	$15.5 \pm 0.2$
		$1.12 \pm 0.02$	13.2±0.2
Virginia Slims 100FSP		1.17±0.02	15.0±0.4
Saratoga 120's 120FHP		$0.97 \pm 0.02$	17.4±0.4
Century 25's (25) KFSP		$1.13 \pm 0.03$	13.6±0.3
Pall Mall Red Filters KFSP		$0.96 \pm 0.03$	14.4±0.3
Raleigh KFSP		0.90±0.03 1.15±0.02	13.3±0.3
Virginia Slims 100FMSP			13.5±0.5 14.6±0.3
*Alpine 100s 100FMSP		1.13±0.02	
Benson & Hedges KFHP		1.25±0.03	12.5±0.4 15.7±0.3
Raleigh 100's 100FSP		0.97±0.02	
Craven "A" KFHP		$1.19 \pm 0.02$	$16.3 \pm 0.3$
Pall Mall Red Filters 100's 100FSP		$1.17 \pm 0.02$	$14.9 \pm 0.3$
Doral Full Flavor 100's 100FMSP		1.13±0.02	$17.3 \pm 0.2$
Benson & Hedges 100's 100FMSP		1.16±0.02	15.9±0.3
Newport KFMHP		$1.15 \pm 0.02$	$16.9 \pm 0.3$
Kool KFMHP	15.9±0.4	$1.09 \pm 0.02$	$15.6 \pm 0.4$

^{*}Retested brand

	"Tar"	"Nicotine"	CO
Brand	mg/eig_	mg/cig	mg/cig
	-1		
Malibu Menthol KFMSP	16.1 ± 0.3	$1.18 \pm 0.02$	$14.0 \pm 0.3$
Richland 20's KFMSP	$16.1 \pm 0.3$	$1.05 \pm 0.02$	$15.5 \pm 0.4$
Viceroy Super Long 100's 100FSP		$1.17 \pm 0.02$	$15.3 \pm 0.3$
Doral Full Flavor KFSP		$1.02 \pm 0.03$	$16.5 \pm 0.4$
Doral Full Flavor 100's 100FSP		$1.11 \pm 0.03$	$18.1 \pm 0.4$
Richland 20's Menthol 100's 100FMSP		$1.14 \pm 0.02$	$16.4 \pm 0.3$
Doral Full Flavor KFMSP	16.3±0.2	$1.09 \pm 0.02$	$16.1 \pm 0.3$
Salem 100's 100FMSP		$1.15 \pm 0.02$	$16.0 \pm 0.4$
Marlboro 100's 100FSP	16.4±0.3	$1.21 \pm 0.02$	$15.7 \pm 0.4$
American Filter King KFSP		$1.15 \pm 0.01$	$14.5 \pm 0.3$
Marlboro 100's Red 100FSP		$1.22 \pm 0.01$	$15.9 \pm 0.2$
Benson & Hedges 100's 100FHP		$1.22 \pm 0.02$	$15.3 \pm 0.2$
American Filter 100's 100FSP	16.4±0.2	$1.21 \pm 0.02$	$14.5 \pm 0.3$
Prince KFSP		$1.31 \pm 0.02$	$18.0 \pm 0.2$
Richland (25) KFMSP		$1.08 \pm 0.02$	$15.8 \pm 0.4$
Benson & Hedges 100's 100FMHP	16.5±0.3	$1.21 \pm 0.02$	$15.6 \pm 0.3$
Marlboro KFMSP		$1.16 \pm 0.02$	$15.0 \pm 0.3$
Malibu Filters KFSP		$1.20 \pm 0.02$	$14.9 \pm 0.3$
Winston KFSP		$1.11 \pm 0.02$	$16.2 \pm 0.3$
Marlboro 100's 100FHP		$1.23 \pm 0.02$	$16.2 \pm 0.3$
Philip Morris International 100FHP		$1.25 \pm 0.02$	$16.1 \pm 0.3$
Viceroy KFSP	16.8±0.3	$1.11 \pm 0.03$	$15.7 \pm 0.4$
Richland (25) KFSP	16.8±0.3	$1.16 \pm 0.02$	$16.1 \pm 0.4$
Marlboro KFSP	16.8±0.3	$1.18 \pm 0.02$	$15.1 \pm 0.3$
Winston KFHP		$1.05 \pm 0.02$	$15.8 \pm 0.3$
Marlboro KFHP		$1.17 \pm 0.02$	14.5±0.4
Philip Morris International 100FMHP		$1.28 \pm 0.02$	$15.6 \pm 0.2$
Marlboro 100's Red 100FHP		$1.27 \pm 0.02$	$17.3 \pm 0.3$
Salem KFMSP		$1.16 \pm 0.02$	. 16.7±0.2
Camel Filters KFHP		$1.04 \pm 0.02$	16.1±0.3
Benson & Hedges 100's 100FSP		$1.24 \pm 0.02$	16.8±0.3
Dunhill International 100FHP		1.56±0.03	17.3±0.3
Newport KFMSP		$1.23 \pm 0.02$	17.7±0.3
Max 120s 120FMSP	169+04	1.32±0.03	17.6±0.5
*Alpine KFMSP	170+03	1.14±0.02	16.0±0.3
Kool KFMSP	170+03	$1.19 \pm 0.03$	16.0±0.4
More 120s 120FSP	170±0.5	1.21±0.02	21.8±0.3
Newport 25's KFMSP		1.24±0.02	18.1±0.2
		1.21±0.02	15.4±0.3
Marlboro 25's KFSP Winston 100's 100FSP		$1.05 \pm 0.01$	$19.1 \pm 0.3$
		$1.32 \pm 0.02$	18.6±0.4
Max 120s 120FSPOld Gold Filters KFSP	172402	1.25±0.02	18.2±0.5
More 120s 120FMSP		$1.32 \pm 0.02$ $1.32 \pm 0.02$	21.9±0.5
		$1.32 \pm 0.02$ $1.18 \pm 0.02$	16.2±0.3
Richland 20's KFSP		$1.18 \pm 0.02$ $1.14 \pm 0.02$	20.4±0.3
Century 25's 100's 100FSP		1.17 ± U.U2	20.7÷0.3

^{*}Retested brand

	"Tar"	"Nicotine"	CO
Brand	mg/cig_	mg/cig	mg/cig
Kool Super Longs 100's 100FMSP	17.2±0.3	$1.27 \pm 0.03$	$16.9 \pm 0.3$
Cambridge Full Flavor 100's 100FSP	17.3±0.3	$1.19 \pm 0.02$	$16.6 \pm 0.4$
Camel Filters 100's 100FSP	$17.3 \pm 0.2$	$1.04 \pm 0.02$	$18.9 \pm 0.3$
Cambridge Full Flavor KFSP	17.5±0.3	$1.14 \pm 0.02$	$15.9 \pm 0.2$
Pall Mall 100's 100FSP	$17.5 \pm 0.2$	$1.34 \pm 0.02$	$17.2 \pm 0.2$
Richland 20's 100's 100FSP	17.8±0.3	$1.30 \pm 0.02$	$17.0 \pm 0.3$
Rothmans KFHP	18.0±0.3	$1.36 \pm 0.02$	$18.9 \pm 0.3$
Newport 100's 100FMSP	18.0±0.3	$1.37 \pm 0.02$	$18.7 \pm 0.4$
Richland 100's (25) 100FSP	18.2±0.2	$1.35 \pm 0.02$	$17.5 \pm 0.3$
Spring 100's 100FMSP	18.2±0.3	$1.40 \pm 0.03$	$18.4 \pm 0.4$
Tall 120s 120FMSP	18.4±0.3	$1.57 \pm 0.03$	$17.5 \pm 0.3$
Old Gold Filter 100's 100FSP	18.4±0.3	$1.39 \pm 0.02$	$19.2 \pm 0.3$
Craven "A" Filter Standard Size RFHP	18.7±0.4	$1.54 \pm 0.03$	$14.1 \pm 0.3$
Newport 100's 100FMHP	18.7±0.3	$1.42 \pm 0.03$	$19.4 \pm 0.3$
Tall 120s 120FSP	18.9±0.3	$1.56 \pm 0.03$	$19.2 \pm 0.3$
Newport 25's 100's 100FMSP		$1.45 \pm 0.02$	$19.4 \pm 0.3$
Chesterfield RNFSP	19.7±0.4	$1.26 \pm 0.03$	$12.6 \pm 0.3$
Kool RNFMSP	21.5±0.8	$1.39 \pm 0.02$	$14.6 \pm 0.3$
Camel RNFSP	$22.5 \pm 0.4$	$1.42 \pm 0.03$	$14.0 \pm 0.3$
Pyramid KNFSP		$1.52 \pm 0.02$	$14.7 \pm 0.4$
English Ovals KNFHP		$1.83 \pm 0.04$	$15.3 \pm 0.4$
Chesterfield KNFSP		$1.58 \pm 0.04$	$14.8 \pm 0.4$
*Philip Morris RNFSP		$1.43 \pm 0.03$	$13.6 \pm 0.5$
Pall Mall KNFSP		$1.65 \pm 0.04$	$16.3 \pm 0.5$
Players RNFHP	24.7±0.4	$1.74 \pm 0.03$	$15.4 \pm 0.4$
Pall Mall 25's KNFSP		$1.66 \pm 0.03$	$16.3 \pm 0.3$
Lucky Strike RNFSP		$1.56 \pm 0.03$	$17.2 \pm 0.4$
Raleigh KNFSP		$1.46 \pm 0.03$	$16.9 \pm 0.4$
Herbert Tareyton KNFSP	25.3 ± 1.0	$1.57 \pm 0.03$	$17.6 \pm 0.4$
Old Gold Straights KNFSP		$1.77 \pm 0.03$	$17.9 \pm 0.6$
Philip Morris Commander KNFSP		$1.65 \pm 0.03$	$16.1 \pm 0.5$

*Re	eteste	d b	rand

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
			0.5
Carlton Ultra KFHP		< 0.5	< 0.5
Now KFHP		< 0.5	< 0.5
Now 100s 100FHP		< 0.5	< 0.5
Carlton 100's 100FMHP		< 0.5	$0.9 \pm 0.1$
Carlton KFMSP		< 0.5	$1.3 \pm 0.1$
Carlton 100's 100FHP		< 0.5	$0.9 \pm 0.1$
Carlton 83 KFHP	0.12±0.01	$0.7 \pm 0.1$	$1.6 \pm 0.1$
Now KFMSP		$0.8 \pm 0.1$	$2.2 \pm 0.1$
Now KFSP		$0.7 \pm 0.1$	$2.0 \pm 0.1$
Carlton KFSP	0.13±0.01	$0.9 \pm 0.1$	$2.0 \pm 0.1$
Kool Ultra KFMSP	$0.18 \pm 0.01$	$1.8 \pm 0.1$	$2.1 \pm 0.1$
Now 100s 100FSP	$0.20 \pm 0.01$	$1.6 \pm 0.1$	$2.8 \pm 0.1$
Now 100s 100FMSP		$2.4 \pm 0.1$	$4.0 \pm 0.2$
Carlton 100's 100FSP		$2.7 \pm 0.1$	$3.8 \pm 0.2$
Triumph KFSP	$0.30 \pm 0.01$	$2.8 \pm 0.2$	$3.6 \pm 0.2$
Kent III KFSP	$0.34 \pm 0.01$	$3.4 \pm 0.2$	$4.6 \pm 0.2$
Triumph KFMSP		$3.4 \pm 0.2$	$4.4 \pm 0.3$
Cambridge Ultra Low Tar 100s 100FSP		$4.0 \pm 0.2$	$6.0 \pm 0.2$
Salem Ultra Lights 100's 100FMSP		4.5±0.2	$7.0 \pm 0.3$
Carlton 100's 100FMSP	0.42±0.01	$4.4 \pm 0.2$	$6.2 \pm 0.2$
Vantage Ultra Lights KFSP		$5.0 \pm 0.1$	$7.4 \pm 0.2$
Winston Ultra Lights 100's 100FSP	0.43±0.01	4.8±0.1	8.3±0.2
Kool Ultra 100's 100FMSP		4.8±0.2	$5.0 \pm 0.2$
Salem Ultra Lights KFMSP	0.44+0.01	$4.9 \pm 0.1$	$7.6 \pm 0.2$
Tareyton Lights KFSP	0.44+0.02	5.1±0.3	5.7±0.4
Kent III 100s 100FSP	0.44+0.01	4.7±0.1	$7.1 \pm 0.2$
Vantage Ultra Lights 100s 100FSP		4.9±0.1	$8.0 \pm 0.2$
Vantage Unita Lights 100 100 PMLP	0.45+0.02	4.8±0.2	5.2±0.2
Virginia Slims Ultra Lights 100 100FMHP	0.46±0.04	4.8±0.1	6.2±0.2
Merit Ultra Lights KFMSP		4.6±0.1	6.1±0.2
True KFMSP	0.46±0.01	4.0±0.2 4.9±0.2	7.8±0.3
Doral Ultra Lights 100's 100FSP	0.46±0.01	4.9±0.2 4.7±0.3	
True KFSP			6.1±0.3 6.3±0.1
Merit Ultra Lights KFSP		$4.8 \pm 0.2$	
Benson & Hedges Deluxe Ultra Lights 100's 100FMH		$5.1 \pm 0.2$	6.8±0.2
Virginia Slims Ultra Lights 100 100FHP		$4.9 \pm 0.1$	5.4±0.2
Kent III 100s 100FHP	0.47 $\pm$ 0.01	$4.9 \pm 0.2$	7.2±0.2
Winston Ultra Lights KFSP		$5.4\pm0.1$	$8.5 \pm 0.2$
Benson & Hedges Deluxe Ultra Lights 100's 100FHP.		$5.2 \pm 0.2$	$6.6 \pm 0.2$
Merit Ultra Lights KFHP	0.49±0.01	$5.1 \pm 0.1$	$6.4 \pm 0.2$
Triumph 100s 100FSP	$0.50 \pm 0.01$	$5.4 \pm 0.2$	7.6±0.3
Merit Ultra Lights 100's 100FMSP	0.51±0.01	$5.2 \pm 0.2$	$7.2 \pm 0.3$
Triumph 100s 100FMSP		$5.5 \pm 0.2$	$7.8 \pm 0.2$
Merit Ultra Lights 100's 100FSP	0.53±0.01	$5.3 \pm 0.2$	$7.1 \pm 0.2$
Savvy Ultra Lights 100's 100FSP		$5.2 \pm 0.2$	$5.2 \pm 0.1$
Pyramid Ultra Lights 100's 100FSP		$5.6 \pm 0.1$	$5.1 \pm 0.1$
Merit Ultra Lights 100's 100FHP		5.8±0.1	$7.1 \pm 0.2$
Eve Ultra Lights 120's 120FHP	0.58±0.02	$5.4 \pm 0.2$	$4.0 \pm 0.1$

	"Nicotine"	"Tar"	co
Brand	mg/cig	mg/cig	mg/cig
Diana			
Eve Ultra Lights 120's 120FMHP	0.58±0.02	$5.3 \pm 0.2$	$3.9 \pm 0.2$
Carlton 120's 120FMSP		$5.9 \pm 0.2$	$5.1 \pm 0.1$
True 100's 100FSP		$6.2 \pm 0.3$	$7.0 \pm 0.3$
Vantage Menthol 100s 100FMSP		$8.2 \pm 0.2$	$12.6 \pm 0.3$
Carlton 120's 120FSP		$6.1 \pm 0.2$	$5.5 \pm 0.2$
True 100's 100FMSP		$6.5 \pm 0.3$	$7.2 \pm 0.4$
Merit KFHP		$7.7 \pm 0.3$	$10.1 \pm 0.3$
Camel Lights KFHP		$9.4 \pm 0.2$	$11.6 \pm 0.2$
Belair 100's 100FMSP	0.62±0.01	$8.1 \pm 0.2$	$8.7 \pm 0.2$
Winston Lights KFHP		$9.6 \pm 0.2$	$11.5 \pm 0.2$
Merit KFSP		$7.8 \pm 0.1$	$10.2 \pm 0.3$
Vantage 100s 100FSP	0.64±0.01	$8.5 \pm 0.1$	$11.4 \pm 0.2$
Merit KFMSP		$7.9 \pm 0.2$	$9.8 \pm 0.2$
Magna Lites KFSP		$9.4 \pm 0.2$	$13.4 \pm 0.3$
Winston Lights KFSP	$0.66 \pm 0.02$	$9.5 \pm 0.2$	$11.4 \pm 0.2$
Camel Lights KFSP		$9.4 \pm 0.1$	$11.9 \pm 0.2$
Kool Lights KFMSP		$8.1 \pm 0.2$	$9.0 \pm 0.2$
Tareyton Long Lights 100FSP	0.68±0.02	$7.9 \pm 0.3$	$8.8 \pm 0.4$
Salem Lights 100's 100FMSP		$8.2 \pm 0.2$	$10.0 \pm 0.2$
Lucky Strike Lights KFSP		$8.4 \pm 0.2$	$10.1 \pm 0.3$
Vantage KFMSP		$9.8 \pm 0.2$	$12.2 \pm 0.2$
Century 25's Lights (25) KFSP		9.4±0.2	$11.0 \pm 0.3$
Kent Golden Lights KFSP	0.69±0.02	$7.6 \pm 0.2$	$8.5 \pm 0.3$
Salem Lights KFMSP		$9.4 \pm 0.2$	$12.0 \pm 0.3$
Kent Golden Lights KFHP	0.71 $\pm$ 0.02	$8.1 \pm 0.2$	$9.2 \pm 0.3$
Virginia Slims Lights 100FMHP	0.71 $\pm$ 0.01	$8.6 \pm 0.2$	$9.6 \pm 0.2$
Vantage Excell 100's 100FSP	0.72±0.02	$8.8 \pm 0.2$	$9.2 \pm 0.3$
Virginia Slims Lights 100FHP	$0.72 \pm 0.02$	$8.7 \pm 0.2$	9.6±0.3
More Lights 100s 100FMHP	$0.72 \pm 0.01$	$9.5 \pm 0.2$	$10.8 \pm 0.2$
Winston Lights 100's 100FHP	$0.72 \pm 0.02$	$9.9 \pm 0.2$	$12.3 \pm 0.4$
Newport Lights KFMHP	0.72±0.01	$8.3 \pm 0.1$	$9.2 \pm 0.2$
Doral Lights KFSP		$9.8 \pm 0.2$	$11.2 \pm 0.3$
Newport Lights KFMSP	0.72±0.02	$8.1 \pm 0.3$	$9.0 \pm 0.3$
Vantage KFSP	0.73±0.01	$10.3 \pm 0.1$	$13.4 \pm 0.2$
Kent Golden Lights KFMSP	0.73 $\pm$ 0.02	$8.1 \pm 0.3$	$8.9 \pm 0.4$
Doral Menthol Lights KFMSP	0.73 $\pm 0.02$	$10.0 \pm 0.3$	$11.4 \pm 0.4$
Alpine Lights KFMSP	0.74±0.02	$9.3 \pm 0.2$	$10.6 \pm 0.2$
Players Lights 25's KFMSP	0.74±0.02	$10.1 \pm 0.2$	$11.2 \pm 0.2$
Falcon Lights KFSP		10.9±0.3	$11.0 \pm 0.3$
Parliament Lights KFHP	0.74±0.01	$9.2 \pm 0.2$	9.9±0.3
More White Lights 120s 120FSP		$9.8 \pm 0.1$	$13.5 \pm 0.3$
Kool Lights 100's 100FMSP	0.74 $\pm$ 0.02	$8.7 \pm 0.3$	$10.0 \pm 0.4$
Salem Slim Lights 100's 100FMHP	0.75 $\pm$ 0.01	$9.5 \pm 0.2$	$10.0 \pm 0.2$
Falcon Lights 100's 100FMSP		$9.0 \pm 0.3$	$10.8 \pm 0.3$
Malibu Lights 100's 100FSP	0.75±0.02	$8.9 \pm 0.2$	$10.5 \pm 0.2$
Capri 100FMHP	0.75±0.02	$9.5 \pm 0.2$	$6.3 \pm 0.2$
Newport Stripes Slim Lights 100FMHP	0.76±0.01	$9.6 \pm 0.2$	$11.3 \pm 0.3$

	"Nicotine"	"Tar"	co
Brand	mg/cig	mg/cig	mg/cig
Marlboro Lights KFMHP	0.76+0.02	9.8±0.2	11.1±0.3
Parliament Lights KFSP	0.76+0.01	9.4±0.2	$10.7 \pm 0.3$
Malibu Lights WESD	0.70±0.01	9.6±0.2	10.7±0.3
Malibu Lights KFSPLucky Strike Lights 100's 100FSP	0.76±0.01	8.9±0.2	9.8±0.3
Players Lights 25's KFSP	0.70±0.02 0.77±0.01	10.4±0.1	$11.3 \pm 0.2$
Old Gold Lights KFSP	0.77 ± 0.01	8.7±0.3	9.9±0.4
Ritz 100 100FHP	0.77 ± 0.02	9.8±0.3	$10.7 \pm 0.3$
Ritz 100 100FMHP		10.8±0.2	11.0±0.3
Merit 100's 100FMSP		9.7±0.2	11.4±0.3
Alpine Lights 100's 100FMSP		9.5±0.1	11.2±0.2
Camel Lights 100's 100FSP		11.0±0.2	13.7±0.3
Winston Lights 100's 100FSP	0.70±0.01 0.70±0.01	$11.1 \pm 0.2$	12.7±0.2
Dunhill International Superior Mild 100FHP		8.5±0.3	9.8±0.3
Falcon Lights 100's 100FSP		11.2±0.3	14.2±0.4
Falcon Lights KFMSP	0.70 ± 0.02	10.4±0.3	12.0±0.4
Chesterfield Lights KFSP	0.70 + 0.01	$10.0 \pm 0.2$	11.6±0.2
Pall Mall Red Lights 100's 100FSP		9.3±0.2	9.6±0.2
Capri 100FHP		9.6±0.2	6.5±0.2
Merit 100's 100FSP	0.0±0.02 0.02 ±0.02	9.8±0.2	12.1±0.3
Benson & Hedges Lights 100's 100FMHP		10.2±0.2	11.5±0.2
Newport Lights 100's 100FMSP		8.7±0.4	9.2±0.4
		8.7±0.4	9.2±0.5
Kent Golden Lights 100s 100FSP		8.7±0.3	9.2±0.3
Newport Lights 100's 100FMHP	0.01 ± 0.01	10.0±0.2	11.3±0.2
Mariboro Lights 100's 100FMHP	0.01 ± 0.01	10.0±0.2 10.3±0.2	14.8±0.3
More White Lights 120s 120FMSP	0.01 ± 0.02	$10.3 \pm 0.2$ $10.2 \pm 0.2$	10.5±0.3
Pall Mall Red Lights KFSP		11.1±0.2	12.6±0.2
Kent KFHP		11.1±0.2 11.0±0.2	11.9±0.2
Marlboro Lights 25's KFSP		11.0±0.2 11.1±0.3	$12.5 \pm 0.2$ $12.5 \pm 0.4$
Century 25's Lights 100's 100FMSP		10.5±0.2	9.6±0.2
Belair KFMSP		8.9±0.3	9.7±0.4
Kent Golden Lights 100s 100FHP		10.3±0.3	10.5±0.4
Doral Lights 100's 100FSP		10.5±0.5 10.8±0.2	$10.3 \pm 0.4$ $11.3 \pm 0.3$
Salem Lights 100's 100FMHP			11.1±0.3
More Lights 100s 100FHP		10.4±0.3	
Benson & Hedges Lights 100's 100FSP		10.6±0.3	12.8±0.4 6.8±0.2
L & M Long Lights 100FSP	0.85±0.02	8.2±0.3	11.6±0.4
Benson & Hedges Lights 100's 100FHP		10.8±0.2	
Marlboro Lights KFHP		11.2±0.2	12.4±0.3
Pall Mall Lights 100's 100FSP		10.3±0.3	11.8±0.3
Marlboro Lights 100's 100FSP	0.86±0.02	10.7±0.2	12.0±0.3
Players KFMHP	0.86±0.01	11.8±0.2	12.6±0.2
Marlboro Lights 100's 100FHP	0.86±0.02	10.8±0.2	12.0±0.2
Marlboro Lights KFSP	0.86±0.02	11.3±0.3	$11.8 \pm 0.3$
Benson & Hedges Lights 100's 100FMSP		10.6±0.2	$11.7 \pm 0.3$
Chesterfield Lights 100s 100FSP		10.3±0.2	11.3±0.3
Players 25's Lights 100's 100FMSP		11.5±0.2	13.5±0.3
Savvy 100's Lights 100FSP	0.87±0.02	10.1 ± 0.2	$10.7 \pm 0.2$

	"Nicotine"	"Tar"	CO
Brand	mg/cig	mg/cig	mg/cig
Kool Milds KFMHP	0.87±0.01	11.5±0.2	11.4±0.2
		12.0±0.3	13.0±0.4
Cambridge Lights KFMSP		11.3±0.2	12.7±0.3
Viceroy Lights KFSPKent KFSP	0.07±0.02		13.6±0.4
		12.0±0.3	12.6±0.3
Players KFHP		11.8±0.2	13.7±0.3
Players 25's Lights 100's 100FSP			
Kent Golden Lights 100s 100FMSP		9.7±0.4	10.5±0.5 11.2±0.3
Doral Menthol Lights 100's 100FMSP		10.9±0.2	13.6±0.3
Cambridge Lights 100's 100FMSP		11.5±0.2	
Cambridge Lights 100's 100FSP		11.7±0.2	13.6±0.3
Savvy 100's Lights 100FMSP		10.3±0.2	10.9±0.2
Raleigh Lights KFSP		11.4±0.3	12.5±0.3
Magna KFHP	0.89±0.02	13.9±0.2	14.9±0.3
Century 25's Lights 100's 100FSP		$11.5 \pm 0.2$	13.0±0.3
Cambridge Lights KFSP	0.89 $\pm 0.02$	$12.4 \pm 0.2$	12.7±0.2
*Benson & Hedges Multifilter KFSP		$11.3 \pm 0.2$	11.1±0.3
Richland Lights (25) KFSP	0.90 $\pm$ 0.02	$11.6 \pm 0.3$	$12.6 \pm 0.3$
Newport Stripes 100FMHP		$12.1 \pm 0.2$	$16.4 \pm 0.4$
More Lights 120s 120FSP	$0.91 \pm 0.02$	$12.1 \pm 0.2$	$18.8 \pm 0.4$
Newport Stripes 100FHP	0.91±0.02	$11.7 \pm 0.2$	$15.5 \pm 0.4$
American Lights KFSP	0.91±0.01	$12.0 \pm 0.2$	$12.7 \pm 0.2$
Richland 20's Lights 100's 100FSP		$12.3 \pm 0.3$	$14.0 \pm 0.3$
Richland 20's Lights KFSP		$11.9 \pm 0.2$	$12.5 \pm 0.3$
Lucky Strike KFHP		$12.0 \pm 0.2$	$12.8 \pm 0.2$
Viceroy Lights 100's 100FSP	$0.92 \pm 0.02$	$12.0 \pm 0.3$	$13.8 \pm 0.3$
Old Gold Lights 100s 100FSP		$12.0 \pm 0.2$	$16.4 \pm 0.3$
Lucky Strike KFSP		$12.3 \pm 0.3$	$12.8 \pm 0.4$
Raleigh Lights 100's 100FSP		$12.3 \pm 0.2$	$14.6 \pm 0.3$
Magna KFSP		$13.5 \pm 0.2$	$13.9 \pm 0.3$
Malibu Menthol 100's 100FMSP		$11.5 \pm 0.3$	$12.1 \pm 0.4$
St. Moritz Menthol 100FMSP		14.2±0.3	$16.0 \pm 0.4$
Satin 100FSP		11,1±0.3	$13.3 \pm 0.4$
Kool Milds KFMSP		$12.2 \pm 0.2$	12.6±0.2
Satin 100FMSP		$11.3 \pm 0.2$	$13.6 \pm 0.3$
Kool Milds 100's 100FMSP		$12.1 \pm 0.3$	13.0±0.3
Richland Lights (25) 100's 100FSP		$12.6 \pm 0.2$	14.4±0.3
Raleigh KFSP	0.05±0.02	$15.3 \pm 0.4$	14.4±0.3
		12.1±0.2	7.5±0.2
Capri 120's 120FMHP		14.8±0.2	14.3±0.3
Camel Filters KFSP Lucky Strike Filters 100's 100FSP		14.6±0.2 12.4±0.3	13.0±0.3
			13.0±0.3
American Lights 100's 100FSP		12.3±0.3	13.2±0.4 17.4±0.4
Century 25's (25) KFSP	0.97 ±0.02	15.1±0.3	17.4±0.4 15.7±0.3
Raleigh 100's 100FSP		15.5±0.4	13.7±0.3 13.0±0.4
Dunhill Menthol Mild 100FMHP		10.8±0.4	
Harley Davidson KFSP	U.99±0.01	$13.9 \pm 0.1$	$16.0 \pm 0.2$

^{*}Retested brand

	"Nicotine"	"Tar"	co
Brand	mg/cig	mg/cig	mg/cig
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Silva Thins Menthol 100FMHP	$0.99 \pm 0.02$	$12.3 \pm 0.2$	$11.9 \pm 0.3$
More Lights 120s 120FMSP		$12.6 \pm 0.3$	$19.5 \pm 0.5$
Tareyton KFSP	$0.99 \pm 0.02$	14.2±0.3	$15.6 \pm 0.3$
L & M 30's Lights 100's 100FSP		$11.9 \pm 0.2$	$9.9 \pm 0.3$
Lark Lights KFSP		$12.6 \pm 0.3$	$11.4 \pm 0.3$
Silva Thins Filters 100FHP		$12.4 \pm 0.2$	$11.8 \pm 0.2$
Tareyton 100's 100FSP		$13.9 \pm 0.2$	$16.7 \pm 0.3$
Parliament Lights 100's 100FSP		$12.2 \pm 0.2$	$12.8 \pm 0.3$
Doral Full Flavor KFSP		16.2±0.3	$16.5 \pm 0.4$
Eve Slim Lights 100's 100FHP		$12.7 \pm 0.2$	$10.9 \pm 0.2$
Players 100's 100FMHP	1.03±0.02	13.9±0.2	$12.5 \pm 0.2$
Eve Slim Lights 100's 100FMHP	1.03±0.02	$12.9 \pm 0.3$	$10.7 \pm 0.3$
Kent 100s 100FSP		$13.9 \pm 0.3$	$15.1 \pm 0.3$
Players 100's 100FHP		$14.2 \pm 0.2$	$12.9 \pm 0.2$
Camel Filters KFHP		$16.9 \pm 0.3$	$16.1 \pm 0.3$
Camel Filters 100's 100FSP		17.3±0.2	$18.9 \pm 0.3$
Kent 100s 100FMSP		14.1±0.3	14.9±0.3
Richland 20's KFMSP		16.1±0.3	15.5±0.4
L & M KFSP		$13.6 \pm 0.3$	13.0±0.3
Winston KFHP		16.8±0.3	15.8±0.3
Winston 100's 100FSP		17.1±0.2	19.1±0.3
Pyramid Lights KFSP		13.5±0.2	12.9±0.3
L & M KFHP		13.6±0.2	$12.9 \pm 0.2$
Lark Light 100's 100FSP		13.0±0.2 13.0±0.3	12.5±0.2
Richland (25) KFMSP		16.5±0.4	15.8±0.4
Lark KFSP		$10.3\pm0.4$ $14.0\pm0.2$	12.3±0.2
		12.3±0.3	12.4±0.3
Prince Lights KFSP		16.3±0.2	$16.1 \pm 0.3$
Doral Full Flavor KFMSP		14,9±0.2	$15.5 \pm 0.2$
St. Moritz Filter 100FSP		15.9±0.4	$15.5 \pm 0.2$ $15.6 \pm 0.4$
Kool KFMHP			13.0±0.4 14.6±0.3
L & M Super 100 100FSP	1.09 ± 0.02	13.7±0.2	
Virginia Slims Lights 120's 120FMHP		$13.7 \pm 0.3$	13.3±0.3
Winston KFSP		16.6±0.3	16.2±0.3
Eve Lights 120's 120FHP	1.11±0.02	12.8±0.3	11.4±0.3
Rothmans Special Mild KFHP		14.1±0.3	15.9±0.2
Doral Full Flavor 100's 100FSP		16.2±0.3	$18.1 \pm 0.4$
Viceroy KFSP		16.8±0.3	15.7±0.4
Malibu 100's 100FSP		$14.3 \pm 0.5$	13.7±0.5
Capri 120's 120FHP		14.0±0.2	9.8±0.3
Virginia Slims 100FSP		$15.0 \pm 0.3$	$13.2 \pm 0.2$
Pall Mall Red Filters KFSP		15.2±0.4	13.6±0.3
Doral Full Flavor 100's 100FMSP		$15.8 \pm 0.2$	17.3±0.2
*Alpine 100s 100FMSP	1.13 $\pm$ 0.02	$15.4 \pm 0.3$	14.6±0.3
Virginia Slims Lights 120's 120FHP	1.13 $\pm$ 0.02	$14.3 \pm 0.3$	13.9±0.4
Saratoga 120's 120FMHP	1.13 $\pm$ 0.02	$14.8 \pm 0.2$	$14.3 \pm 0.3$

^{*}Retested brand

•	"Nicotine"	"Tar"	CO
Brand	mg/cig	mg/cig	mg/cig
			44.5.00
Eve Lights 120's 120FMHP	1.14±0.03	13.0±0.2	11.5±0.3
Century 25's 100's 100FSP	1.14±0.02	17.2±0.2	20.4±0.3
*Alpine KFMSP		$17.0 \pm 0.3$	16.0±0.3
Richland 20's Menthol 100's 100FMSP		16.3±0.3	16.4±0.3
Pyramid Lights 100's 100FSP		13.5±0.2	14.5±0.2
Cambridge Full Flavor KFSP		17.5±0.3	15.9±0.2
American Filter King KFSP		16.4±0.2	14.5±0.3
Newport KFMHP		15.9±0.3	16.9±0.3
Virginia Slims 100FMSP		$15.3 \pm 0.2$	$13.3 \pm 0.3$
Salem 100's 100FMSP		$16.4 \pm 0.3$	$16.0 \pm 0.4$
Richland (25) KFSP		16.8±0.3	16.1±0.4
Marlboro KFMSP	$\dots 1.16 \pm 0.02$	16.5±0.3	$15.0 \pm 0.3$
Benson & Hedges 100's 100FMSP	$\dots 1.16 \pm 0.02$	$15.8 \pm 0.2$	$15.9 \pm 0.3$
Salem KFMSP	1.16±0.02	$16.8 \pm 0.2$	$16.7 \pm 0.2$
Saratoga 120's 120FHP	$1.17 \pm 0.02$	$15.1 \pm 0.3$	$15.0 \pm 0.4$
Marlboro KFHP		$16.8 \pm 0.3$	$14.5 \pm 0.4$
Viceroy Super Long 100's 100FSP	$1.17 \pm 0.02$	$16.1 \pm 0.3$	$15.3 \pm 0.3$
Lark 100FSP		$14.4 \pm 0.2$	$13.6 \pm 0.2$
Pall Mall Red Filters 100's 100FSP	1.17±0.02	$15.6 \pm 0.3$	$14.9 \pm 0.3$
Richland 20's KFSP		$17.2 \pm 0.4$	$16.2 \pm 0.3$
Marlboro KFSP		16.8±0.3	$15.1 \pm 0.3$
Malibu Menthol KFMSP		16.1±0.3	$14.0 \pm 0.3$
Kool KFMSP		$17.0 \pm 0.3$	$16.0 \pm 0.4$
Craven "A" KFHP		$15.6 \pm 0.2$	$16.3 \pm 0.3$
Cambridge Full Flavor 100's 100FSP		$17.3 \pm 0.3$	16.6±0.4
Malibu Filters KFSP		16.6±0.3	$14.9 \pm 0.3$
Marlboro 25's KFSP		$17.1 \pm 0.3$	15.4±0.3
American Filter 100's 100FSP		16.4±0.2	14.5±0.3
		17.0±0.2	21.8±0.3
More 120s 120FSP		$17.0 \pm 0.2$ $16.5 \pm 0.3$	15.6±0.3
Benson & Hedges 100's 100FMHP			15.0±0.3 15.7±0.4
Marlboro 100's 100FSP		16.4±0.3	
Benson & Hedges 100's 100FHP		16.4±0.2	15.3±0.2
Marlboro 100's Red 100FSP		16.4±0.2	15.9±0.2
Newport KFMSP		$16.9 \pm 0.2$	17.7±0.3
Marlboro 100's 100FHP		$16.6 \pm 0.2$	16.2±0.3
Benson & Hedges 100's 100FSP		$16.9 \pm 0.3$	16.8±0.3
Newport 25's KFMSP		$17.1 \pm 0.2$	$18.1 \pm 0.2$
Philip Morris International 100FHP		$16.7 \pm 0.2$	$16.1 \pm 0.3$
Old Gold Filters KFSP		$17.2 \pm 0.3$	$18.2 \pm 0.5$
Benson & Hedges KFHP		$15.4 \pm 0.4$	$12.5 \pm 0.4$
Chesterfield RNFSP		$19.7 \pm 0.4$	$12.6 \pm 0.3$
Dunhill Menthol 100FMHP		$14.8 \pm 0.2$	17.1±0.2
Marlboro 100's Red 100FHP	1.27±0.02	$16.8 \pm 0.3$	$17.3 \pm 0.3$
Kool Super Longs 100's 100FMSP		17.2±0.3	$16.9 \pm 0.3$
	$1.28 \pm 0.02$	$16.8 \pm 0.2$	$15.6 \pm 0.2$

^{*}Retested brand

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Richland 20's 100's 100FSP	1 20+0 02	17.8±0.3	17.0±0.3
Prince KFSP		16.5±0.5	18.0±0.2
More 120s 120FMSP		17.2±0.3	$21.9 \pm 0.5$
Max 120s 120FMSP		$16.9 \pm 0.4$	$17.6 \pm 0.5$
Max 120s 120FSP		17.2±0.2	18.6±0.4
Pall Mall 100's 100FSP		17.5±0.2	17.2±0.2
Richland 100's (25) 100FSP		18.2±0.2	17.5±0.3
Rothmans KFHP	1.36±0.02	18.0±0.3	18.9±0.3
Newport 100's 100FMSP		18.0±0.3	$18.7 \pm 0.4$
Kool RNFMSP		21.5±0.8	14.6±0.3
Old Gold Filter 100's 100FSP		18.4±0.3	19.2±0.3
Spring 100's 100FMSP		18.2±0.3	$18.4 \pm 0.4$
Camel RNFSP		$22.5 \pm 0.4$	$14.0 \pm 0.3$
Newport 100's 100FMHP		$18.7 \pm 0.3$	19.4±0.3
*Philip Morris RNFSP	$1.43 \pm 0.03$	23.5±0.5	13.6±0.5
Newport 25's 100's 100FMSP	1.45±0.02	$19.2 \pm 0.2$	$19.4 \pm 0.3$
Raleigh KNFSP		$25.1 \pm 0.4$	$16.9 \pm 0.4$
Pyramid KNFSP	1.52±0.02	$22.7 \pm 0.4$	14.7±0.4
Craven "A" Filter Standard Size RFHP	1.54±0.03	$18.7 \pm 0.4$	$14.1 \pm 0.3$
Tall 120s 120FSP	1.56±0.03	$18.9 \pm 0.3$	$19.2 \pm 0.3$
Lucky Strike RNFSP		$25.1 \pm 0.4$	$17.2 \pm 0.4$
Dunhill International 100FHP	1.56±0.03	$16.9 \pm 0.2$	$17.3 \pm 0.3$
Tall 120s 120FMSP		$18.4 \pm 0.3$	$17.5 \pm 0.3$
Herbert Tareyton KNFSP		$25.3 \pm 1.0$	$17.6 \pm 0.4$
Chesterfield KNFSP		23.5±0.5	$14.8 \pm 0.4$
Pall Mall KNFSP	1.65±0.04	24.7±0.6	$16.3 \pm 0.5$
Philip Morris Commander KNFSP		$26.1 \pm 0.4$	$16.1 \pm 0.5$
Pall Mall 25's KNFSP	1.66±0.03	$25.0 \pm 0.3$	$16.3 \pm 0.3$
Players RNFHP	1.74±0.03	$24.7 \pm 0.4$	$15.4 \pm 0.4$
Old Gold Straights KNFSP		$26.0 \pm 0.7$	$17.9 \pm 0.6$
English Ovals KNFHP		23.5±0.4	$15.3 \pm 0.4$

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Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Carlton Ultra KFHP	< 0.5	< 0.5	< 0.05
Now KFHP		< 0.5	< 0.05
Now 100s 100FHP		< 0.5	< 0.05
Carlton 100's 100FMHP		< 0.5	$0.09 \pm 0.00$
Carlton 100's 100FHP		< 0.5	$0.09 \pm 0.00$
Carlton KFMSP		< 0.5	$0.09 \pm 0.01$
Carlton 83 KFHP		0.7±0.1	0.12±0.01
Now KFSP.		0.7±0.1 0.7±0.1	$0.12 \pm 0.01$
Carlton KFSP		$0.9 \pm 0.1$	0.13±0.01
Kool Ultra KFMSP		$1.8 \pm 0.1$	$0.13\pm0.01$ $0.18\pm0.01$
Now KFMSP		$0.8 \pm 0.1$	0.12±0.01
Now 100s 100FSP.		1.6±0.1	$0.20 \pm 0.01$
		$2.8 \pm 0.2$	$0.20 \pm 0.01$ $0.30 \pm 0.01$
Triumph KFSP		$2.7 \pm 0.1$	$0.29 \pm 0.01$
Carlton 100's 100FSP			
Eve Ultra Lights 120's 120FMHP		5.3±0.2	$0.58 \pm 0.02$
Eve Ultra Lights 120's 120FHP		5.4±0.2	0.58±0.02
Now 100s 100FMSP		2.4±0.1	0.25±0.01
Triumph KFMSP		3.4±0.2	$0.35 \pm 0.02$
Kent III KFSP		3.4±0.2	$0.34 \pm 0.01$
Kool Ultra 100's 100FMSP		$4.8 \pm 0.2$	$0.43 \pm 0.02$
Carlton 120's 120FMSP		$5.9 \pm 0.2$	$0.59 \pm 0.02$
Pyramid Ultra Lights 100's 100FSP		$5.6 \pm 0.1$	$0.57 \pm 0.01$
Savvy Ultra Lights 100's 100FSP		$5.2 \pm 0.2$	$0.54 \pm 0.01$
Virginia Slims Ultra Lights 100 100FMHP		$4.8 \pm 0.2$	$0.45 \pm 0.02$
Virginia Slims Ultra Lights 100 100FHP		$4.9 \pm 0.1$	$0.47 \pm 0.01$
Carlton 120's 120FSP		$6.1 \pm 0.2$	$0.61 \pm 0.02$
Tareyton Lights KFSP		$5.1 \pm 0.3$	$0.44 \pm 0.02$
Cambridge Ultra Low Tar 100s 100FSP		$4.0 \pm 0.2$	$0.38 \pm 0.01$
True KFMSP		$4.6 \pm 0.2$	$0.46 \pm 0.01$
True KFSP	6.1±0.3	$4.7 \pm 0.3$	$0.46 \pm 0.02$
Merit Ultra Lights KFMSP	., 6.2±0.2	$4.8 \pm 0.1$	$0.46 \pm 0.01$
Carlton 100's 100FMSP	6.2±0.2	$4.4 \pm 0.2$	$0.42 \pm 0.01$
Capri 100FMHP	6.3±0.2	$9.5 \pm 0.2$	$0.75 \pm 0.02$
Merit Ultra Lights KFSP	6.3±0.1	$4.8 \pm 0.2$	$0.46 \pm 0.02$
Merit Ultra Lights KFHP		$5.1 \pm 0.1$	$0.49 \pm 0.01$
Capri 100FHP	6.5±0.2	$9.6 \pm 0.2$	$0.80 \pm 0.02$
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	6.6±0.2	$5.2 \pm 0.2$	$0.48 \pm 0.01$
L & M Long Lights 100FSP		$8.2 \pm 0.3$	$0.85 \pm 0.02$
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	6.8±0.2	$5.1 \pm 0.2$	$0.47 \pm 0.01$
True 100's 100FSP	7.0±0.3	$6.2 \pm 0.3$	$0.60 \pm 0.02$
Salem Ultra Lights 100's 100FMSP	7.0±0.3	$4.5 \pm 0.2$	$0.41 \pm 0.01$
Merit Ultra Lights 100's 100FHP		$5.8 \pm 0.1$	$0.58 \pm 0.02$
Kent III 100s 100FSP		$4.7 \pm 0.1$	$0.44 \pm 0.01$
Merit Ultra Lights 100's 100FSP		$5.3 \pm 0.2$	$0.53 \pm 0.01$
Merit Ultra Lights 100's 100FMSP		$5.2 \pm 0.2$	$0.51 \pm 0.01$
True 100's 100FMSP		6.5±0.3	$0.61 \pm 0.02$
Kent III 100s 100FHP		4.9±0.2	$0.47 \pm 0.01$
		•	

Duand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Brand	mg/cig	mg/cig	mg/cig
Victory I Illian I inhan WECD	74402	5.0±0.1	$0.43 \pm 0.01$
Vantage Ultra Lights KFSP		12.1±0.2	0.96±0.02
Capri 120's 120FMHP		4.9±0.1	0.44±0.01
Salem Ultra Lights KFMSP		5.4±0.2	0.50±0.01
Triumph 100s 100FSP	7.0±0.3	5.5±0.2	0.52±0.02
Triumph 100s 100FMSP		4.9±0.2	0.46±0.01
Doral Ultra Lights 100's 100FSP			
Vantage Ultra Lights 100s 100FSP		4.9±0.1	0.44±0.01 0.43±0.01
Winston Ultra Lights 100's 100FSP		4.8±0.1	
Winston Ultra Lights KFSP		5.4±0.1	0.47±0.01
Kent Golden Lights KFSP		7.6±0.2	0.69±0.02
Belair 100's 100FMSP		8.1±0.2	$0.62 \pm 0.01$
Tareyton Long Lights 100FSP		7.9±0.3	$0.68 \pm 0.02$
Kent Golden Lights KFMSP		$8.1 \pm 0.3$	0.73±0.02
Newport Lights KFMSP	9.0±0.3	$8.1 \pm 0.3$	$0.72 \pm 0.02$
Kool Lights KFMSP	9.0±0.2	$8.1 \pm 0.2$	$0.67 \pm 0.02$
Kent Golden Lights KFHP		$8.1 \pm 0.2$	$0.71 \pm 0.02$
Kent Golden Lights 100s 100FSP		$8.7 \pm 0.3$	$0.80 \pm 0.02$
Newport Lights 100's 100FMSP	9.2±0.4	$8.7 \pm 0.4$	$0.80 \pm 0.03$
Newport Lights 100's 100FMHP	9.2±0.3	$8.7 \pm 0.2$	$0.81 \pm 0.02$
Newport Lights KFMHP	9.2±0.2	$8.3 \pm 0.1$	$0.72 \pm 0.01$
Vantage Excell 100's 100FSP		$8.8 \pm 0.2$	$0.72 \pm 0.02$
Pall Mall Red Lights 100's 100FSP		$9.3 \pm 0.2$	$0.79 \pm 0.01$
Virginia Slims Lights 100FMHP		$8.6 \pm 0.2$	$0.71 \pm 0.01$
Virginia Slims Lights 100FHP		$8.7 \pm 0.2$	$0.72 \pm 0.02$
Belair KFMSP		$10.5 \pm 0.2$	$0.82 \pm 0.02$
Kent Golden Lights 100s 100FHP		$8.9 \pm 0.3$	$0.83 \pm 0.03$
Capri 120's 120FHP		$14.0 \pm 0.2$	$1.12 \pm 0.02$
Dunhill International Superior Mild 100FHP		$8.5 \pm 0.3$	$0.79 \pm 0.02$
Lucky Strike Lights 100's 100FSP		$8.9 \pm 0.2$	$0.76 \pm 0.02$
Merit KFMSP		$7.9 \pm 0.2$	$0.64 \pm 0.01$
L & M 30's Lights 100's 100FSP		$11.9 \pm 0.2$	1.01±0.02
Old Gold Lights KFSP		8.7±0.3	0.77±0.02
Parliament Lights KFHP	00+03	9.2±0.2	$0.74 \pm 0.01$
		8.2±0.2	$0.68 \pm 0.02$
Salem Lights 100's 100FMSP		8.7±0.3	$0.74 \pm 0.02$
Kool Lights 100's 100FMSP	10.0±0.4	9.5±0.2	$0.75 \pm 0.02$
Salem Slim Lights 100's 100FMHP	10.U±U.2		$0.62 \pm 0.02$
Merit KFHP		7.7±0.3	
Lucky Strike Lights KFSP		8.4±0.2	$0.68 \pm 0.01$
Merit KFSP	10,2±0.3	7.8±0.1	$0.63 \pm 0.01$
Malibu Lights KFSP		9.6±0.2	$0.76 \pm 0.01$
Kent Golden Lights 100s 100FMSP		$9.7 \pm 0.4$	0.88±0.03
Doral Lights 100's 100FSP		$10.3 \pm 0.3$	$0.83 \pm 0.02$
Pall Mall Red Lights KFSP		10.2±0.2	$0.82 \pm 0.01$
Malibu Lights 100's 100FSP	10.5±0.2	$8.9 \pm 0.2$	$0.75 \pm 0.02$
Alpine Lights KFMSP	10.6±0.2	$9.3 \pm 0.2$	$0.74 \pm 0.02$
Savvy 100's Lights 100FSP	$10.7 \pm 0.2$	$10.1 \pm 0.2$	$0.87 \pm 0.02$
Parliament Lights KFSP		$9.4 \pm 0.2$	$0.76 \pm 0.01$
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Brand  Ritz 100 100FHP	mg/cig	mg/cig	ma lain
Dit. 100 100EIID			mg/cig
	107±03	9.8±0.3	0.77±0.02
		9.8±0.3 12.9±0.3	$1.03 \pm 0.02$
Eve Slim Lights 100's 100FMHP			$0.72 \pm 0.01$
More Lights 100s 100FMHP		9.5±0.2	0.75±0.01
Falcon Lights 100's 100FMSP		9.0±0.3	
Savvy 100's Lights 100FMSP		10.3±0.2	0.88±0.02
Eve Slim Lights 100's 100FHP		12.7±0.2	1.03±0.02
Ritz 100 100FMHP		10.8±0.2	0.78±0.01
Century 25's Lights (25) KFSP		9.4±0.2	0.68±0.01
Falcon Lights KFSP		10.9±0.3	$0.74 \pm 0.02$
*Benson & Hedges Multifilter KFSP		$11.3 \pm 0.2$	$0.90 \pm 0.02$
More Lights 100s 100FHP	11.1±0.3	$10.4 \pm 0.3$	$0.84 \pm 0.02$
Marlboro Lights KFMHP		$9.8 \pm 0.2$	$0.76 \pm 0.02$
Alpine Lights 100's 100FMSP	11.2±0.2	$9.5 \pm 0.1$	$0.78 \pm 0.01$
Players Lights 25's KFMSP	11.2±0.2	$10.1 \pm 0.2$	$0.74 \pm 0.02$
Doral Menthol Lights 100's 100FMSP	11.2±0.3	$10.9 \pm 0.2$	$0.88 \pm 0.02$
Doral Lights KFSP	11.2±0.3	$9.8 \pm 0.2$	$0.72 \pm 0.02$
Newport Stripes Slim Lights 100FMHP	11.3±0.3	$9.6 \pm 0.2$	$0.76 \pm 0.01$
Marlboro Lights 100's 100FMHP		$10.0 \pm 0.2$	$0.81 \pm 0.01$
Players Lights 25's KFSP		$10.4 \pm 0.1$	$0.77 \pm 0.01$
Chesterfield Lights 100s 100FSP	11.3±0.3	$10.3 \pm 0.2$	$0.86 \pm 0.01$
Salem Lights 100's 100FMHP		$10.8 \pm 0.2$	$0.83 \pm 0.01$
Eve Lights 120's 120FHP		$12.8 \pm 0.3$	$1.11 \pm 0.02$
Vantage 100s 100FSP		8.5±0.1	$0.64 \pm 0.01$
Doral Menthol Lights KFMSP		$10.0 \pm 0.3$	$0.73 \pm 0.02$
Winston Lights KFSP		9.5±0.2	$0.66 \pm 0.02$
Kool Milds KFMHP		11.5±0.2	$0.87 \pm 0.01$
		9.7±0.2	0.78±0.02
Merit 100's 100FMSP		12.6±0.3	1.01±0.03
Lark Lights KFSP		10.2±0.3	$0.80 \pm 0.02$
Benson & Hedges Lights 100's 100FMHP			
Eve Lights 120's 120FMHP		13.0±0.2	1.14±0.03
Winston Lights KFHP	11.5±0.2	9.6±0.2	0.62±0.01
Benson & Hedges Lights 100's 100FHP		$10.8 \pm 0.2$	0.85±0.02
Chesterfield Lights KFSP		$10.0 \pm 0.2$	$0.79 \pm 0.01$
Camel Lights KFHP	11.6±0.2	$9.4 \pm 0.2$	0.62±0.01
Benson & Hedges Lights 100's 100FMSP		$10.6 \pm 0.2$	0.86±0.02
Pall Mall Lights 100's 100FSP	11.8±0.3	$10.3 \pm 0.3$	$0.85 \pm 0.02$
Marlboro Lights KFSP	11.8 $\pm$ 0.3	$11.3 \pm 0.3$	$0.86 \pm 0.02$
Silva Thins Filters 100FHP	11.8±0.2	$12.4 \pm 0.2$	$1.01 \pm 0.02$
Silva Thins Menthol 100FMHP	11.9 $\pm$ 0.3	$12.3 \pm 0.2$	$0.99 \pm 0.02$
Marlboro Lights 25's KFSP	$11.9 \pm 0.2$	$11.0 \pm 0.2$	$0.82 \pm 0.02$
Camel Lights KFSP		$9.4 \pm 0.1$	$0.66 \pm 0.01$
Salem Lights KFMSP		$9.4 \pm 0.2$	$0.70 \pm 0.01$
Marlboro Lights 100's 100FHP		$10.8 \pm 0.2$	$0.86 \pm 0.02$
Falcon Lights KFMSP		$10.4 \pm 0.3$	$0.79 \pm 0.02$
Marlboro Lights 100's 100FSP		$10.7 \pm 0.2$	$0.86 \pm 0.02$

*Retested brand

	CO	"Tar"	"Nicotine"
Brand	mg/cig	mg/cig	mg/cig
Merit 100's 100FSP	12.1±0.3	$9.8 \pm 0.2$	$0.80 \pm 0.02$
Malibu Menthol 100's 100FMSP	12.1±0.4	$11.5 \pm 0.3$	$0.93 \pm 0.02$
Vantage KFMSP	$12.2 \pm 0.2$	$9.8 \pm 0.2$	$0.68 \pm 0.01$
Lark KFSP	$12.3 \pm 0.2$	$14.0 \pm 0.2$	$1.08 \pm 0.02$
Winston Lights 100's 100FHP		$9.9 \pm 0.2$	$0.72 \pm 0.02$
Prince Lights KFSP		$12.3 \pm 0.3$	$1.08 \pm 0.02$
Marlboro Lights KFHP	$12.4 \pm 0.3$	$11.2 \pm 0.2$	$0.85 \pm 0.01$
Players 100's 100FMHP	$12.5 \pm 0.2$	$13.9 \pm 0.2$	$1.03 \pm 0.02$
Richland 20's Lights KFSP		$11.9 \pm 0.2$	$0.91 \pm 0.01$
Century 25's Lights 100's 100FMSP	12.5±0.4	$11.1 \pm 0.3$	$0.82 \pm 0.02$
Benson & Hedges KFHP	12.5±0.4	$15.4 \pm 0.4$	$1.25 \pm 0.03$
Raleigh Lights KFSP	12.5 ± 0.3	$11.4 \pm 0.3$	$0.89 \pm 0.02$
Lark Light 100's 100FSP		$13.0 \pm 0.3$	$1.07 \pm 0.02$
Players KFHP		$12.0 \pm 0.3$	$0.87 \pm 0.02$
Vantage Menthol 100s 100FMSP	$12.6 \pm 0.3$	$8.2 \pm 0.2$	$0.60 \pm 0.01$
Chesterfield RNFSP		$19.7 \pm 0.4$	$1.26 \pm 0.03$
Players KFMHP		$11.8 \pm 0.2$	$0.86 \pm 0.01$
Richland Lights (25) KFSP	12.6±0.3	$11.6 \pm 0.3$	$0.90 \pm 0.02$
Kent KFHP		$11.1 \pm 0.2$	$0.82 \pm 0.01$
Kool Milds KFMSP		$12.2 \pm 0.2$	$0.94 \pm 0.03$
American Lights KFSP		$12.0 \pm 0.2$	$0.91 \pm 0.01$
Winston Lights 100's 100FSP		$11.1 \pm 0.2$	$0.79 \pm 0.01$
Viceroy Lights KFSP		$11.3 \pm 0.2$	$0.87 \pm 0.02$
Cambridge Lights KFSP	12.7±0.2	$12.4 \pm 0.2$	$0.89 \pm 0.02$
Benson & Hedges Lights 100's 100FSP	12.8±0.4	$10.6 \pm 0.3$	$0.84 \pm 0.03$
Lucky Strike KFSP	12.8±0.4	$12.3 \pm 0.3$	$0.92 \pm 0.02$
Parliament Lights 100's 100FSP	12.8±0.3	$12.2 \pm 0.2$	$1.02 \pm 0.02$
Lucky Strike KFHP	$12.8 \pm 0.2$	$12.0 \pm 0.2$	$0.92 \pm 0.02$
Pyramid Lights KFSP	12.9 ± 0.3	$13.5 \pm 0.2$	$1.06 \pm 0.02$
Players 100's 100FHP		$14.2 \pm 0.2$	$1.04 \pm 0.02$
L & M KFHP		13.6±0.2	$1.07 \pm 0.02$
Dunhill Menthol Mild 100FMHP		$10.8 \pm 0.4$	$0.97 \pm 0.03$
Kool Milds 100's 100FMSP		$12.1 \pm 0.3$	$0.95 \pm 0.02$
L & M KFSP		$13.6 \pm 0.3$	$1.05 \pm 0.02$
Cambridge Lights KFMSP		$12.0 \pm 0.3$	$0.87 \pm 0.02$
Lucky Strike Filters 100's 100FSP	13.0±0.3	$12.4 \pm 0.3$	$0.96 \pm 0.02$
Century 25's Lights 100's 100FSP	13.0±0.3	$11.5 \pm 0.2$	$0.89 \pm 0.02$
Virginia Slims 100FSP		$15.0 \pm 0.3$	$1.12 \pm 0.02$
American Lights 100's 100FSP		12.3±0.3	$0.97 \pm 0.02$
Virginia Slims 100FMSP	13.3±0.3	$15.3 \pm 0.2$	$1.15 \pm 0.02$
Satin 100FSP	13.3±0.4	11.1±0.3	$0.94 \pm 0.01$
Virginia Slims Lights 120's 120FMHP		13.7±0.3	$1.09 \pm 0.02$
Vantage KFSP		$10.3 \pm 0.1$	$0.73 \pm 0.01$
Magna Lites KFSP	13.4±0.3	$9.4 \pm 0.2$	$0.65 \pm 0.02$
Players 25's Lights 100's 100FMSP		11.5±0.2	$0.87 \pm 0.01$

	CO	"Tar"	"Nicotine"
Brand	mg/cig	mg/cig	mg/cig
More White Lights 120s 120FSP		$9.8 \pm 0.1$	$0.74 \pm 0.01$
*Philip Morris RNFSP		$23.5 \pm 0.5$	$1.43 \pm 0.03$
Pall Mall Red Filters KFSP		$15.2 \pm 0.4$	$1.13 \pm 0.03$
Satin 100FMSP		$11.3 \pm 0.2$	$0.94 \pm 0.02$
Cambridge Lights 100's 100FSP	13.6±0.3	$11.7 \pm 0.2$	$0.88 \pm 0.01$
Kent KFSP	13.6±0.4	$11.8 \pm 0.3$	$0.87 \pm 0.02$
Lark 100FSP	13.6±0.2	14.4±0.2	$1.17 \pm 0.02$
Cambridge Lights 100's 100FMSP	13.6±0.3	$11.5 \pm 0.2$	$0.88 \pm 0.01$
Camel Lights 100's 100FSP	13.7±0.3	$11.0 \pm 0.2$	$0.78 \pm 0.01$
Players 25's Lights 100's 100FSP		$11.8 \pm 0.2$	$0.88 \pm 0.02$
Malibu 100's 100FSP		14.3±0.5	$1.12 \pm 0.03$
Viceroy Lights 100's 100FSP		$12.0 \pm 0.3$	$0.92 \pm 0.02$
Virginia Slims Lights 120's 120FHP		14,3±0,3	1.13 ± 0.02
Magna KFSP		13.5±0.2	$0.93 \pm 0.01$
Richland 20's Lights 100's 100FSP		12,3±0.3	0.91±0.02
Camel RNFSP		22.5±0.4	1.42±0.03
Malibu Menthol KFMSP		16.1±0.3	$1.18 \pm 0.02$
Craven "A" Filter Standard Size RFHP		18.7±0.4	$1.54 \pm 0.02$
Falcon Lights 100's 100FSP		11.2±0.3	$0.79 \pm 0.02$
		14.8±0.2	$0.79 \pm 0.02$ $0.96 \pm 0.02$
Camel Filters KFSP			:
Saratoga 120's 120FMHP	14.3±0.3	14.8±0.2	1.13±0.02
Richland Lights (25) 100's 100FSP		$12.6 \pm 0.2$	0.95±0.02
Raleigh KFSP		$15.3 \pm 0.4$	$0.96 \pm 0.03$
Pyramid Lights 100's 100FSP		$13.5 \pm 0.2$	1.14±0.02
American Filter King KFSP		$16.4 \pm 0.2$	$1.15 \pm 0.01$
Marlboro KFHP		$16.8 \pm 0.3$	$1.17 \pm 0.02$
American Filter 100's 100FSP	14.5±0.3	$16.4 \pm 0.2$	$1.21 \pm 0.02$
L & M Super 100 100FSP	14.6±0.3	$13.7 \pm 0.2$	$1.09 \pm 0.02$
Raleigh Lights 100's 100FSP	14.6±0.3	$12.3 \pm 0.2$	$0.92 \pm 0.01$
*Alpine 100s 100FMSP	14.6±0.3	$15.4 \pm 0.3$	$1.13 \pm 0.02$
Kool RNFMSP	14.6±0.3	$21.5 \pm 0.8$	$1.39 \pm 0.02$
Pyramid KNFSP		$22.7 \pm 0.4$	$1.52 \pm 0.02$
More White Lights 120s 120FMSP		$10.3 \pm 0.2$	$0.81 \pm 0.02$
Chesterfield KNFSP		23.5±0.5	1.58±0.04
Magna KFHP		13.9±0.2	$0.89 \pm 0.02$
Malibu Filters KFSP		16.6±0.3	$1.20 \pm 0.02$
Kent 100s 100FMSP		14.1±0.3	$1.04 \pm 0.02$
Pall Mall Red Filters 100's 100FSP		15.6±0.3	$1.17 \pm 0.02$
		16.5±0.3	$1.17\pm0.02$ $1.16\pm0.02$
Marlboro KFMSP			
Saratoga 120's 120FHP		15.1±0.3	$1.17 \pm 0.02$
Marlboro KFSP		16.8±0.3	$1.18 \pm 0.02$
Kent 100s 100FSP		13.9±0.3	$1.03 \pm 0.02$
English Ovals KNFHP	15.3±0.4	23.5±0.4	$1.83 \pm 0.04$
Viceroy Super Long 100's 100FSP		16.1±0.3	$1.17 \pm 0.02$
Benson & Hedges 100's 100FHP	15.3±0.2	$16.4 \pm 0.2$	$1.22 \pm 0.02$

*Retested brand

	co	"Tar"	"Nicotine"
Brand	mg/cig_	mg/cig	mg/cig
Marlboro 25's KFSP	15.4±0.3	$17.1 \pm 0.3$	$1.21 \pm 0.02$
Players RNFHP		$24.7 \pm 0.4$	$1.74 \pm 0.03$
St. Moritz Filter 100FSP	15.5±0.2	$14.9 \pm 0.2$	$1.09 \pm 0.02$
Richland 20's KFMSP		$16.1 \pm 0.3$	$1.05 \pm 0.02$
Newport Stripes 100FHP		$11.7 \pm 0.2$	$0.91 \pm 0.02$
Benson & Hedges 100's 100FMHP		$16.5 \pm 0.3$	$1.21 \pm 0.02$
Philip Morris International 100FMHP		$16.8 \pm 0.2$	$1.28 \pm 0.02$
Tarevion KFSP	15.6±0.3	$14.2 \pm 0.3$	$0.99 \pm 0.02$
Tareyton KFSPKool KFMHP	15.6±0.4	$15.9 \pm 0.4$	$1.09 \pm 0.02$
Raleigh 100's 100FSP	15.7±0.3	15.5±0.4	$0.97 \pm 0.02$
Viceroy KFSP		$16.8 \pm 0.3$	$1.11 \pm 0.03$
Marlboro 100's 100FSP	15.7±0.4	16.4±0.3	$1.21 \pm 0.02$
Richland (25) KFMSP		$16.5 \pm 0.4$	$1.08 \pm 0.02$
Winston KFHP		$16.8 \pm 0.3$	$1.05 \pm 0.02$
Rothmans Special Mild KFHP.	15.9±0.2	14.1±0.3	$1.11 \pm 0.02$
Benson & Hedges 100's 100FMSP		15.8±0.2	$1.16 \pm 0.02$
Marlboro 100's Red 100FSP		$16.4 \pm 0.2$	$1.22 \pm 0.01$
Cambridge Full Flavor KFSP		17.5±0.3	1.14±0.02
St. Moritz Menthol 100FMSP	16.0+0.4	14.2±0.3	$0.93 \pm 0.02$
Salem 100's 100FMSP		16.4±0.3	$1.15 \pm 0.02$
Kool KFMSP		17.0±0.3	$1.19 \pm 0.03$
*Alpine KFMSP		17.0±0.3	1.14±0.02
Harley Davidson KFSP	160±0.2	13.9±0.1	$0.99 \pm 0.01$
Camel Filters KFHP		16.9±0.3	$1.04 \pm 0.02$
Doral Full Flavor KFMSP		16.3±0.2	$1.09 \pm 0.02$
Philip Morris Commander KNFSP		26.1±0.4	$1.65 \pm 0.03$
Richland (25) KFSP		16.8±0.3	$1.16 \pm 0.02$
Philip Morris International 100FHP	161+03	16.7±0.2	$1.25 \pm 0.02$
Marlboro 100's 100FHP	162+03	16.6±0.2	$1.23 \pm 0.02$
Winston KFSP		16.6±0.3	$1.11 \pm 0.02$
		$17.2 \pm 0.4$	1.18±0.02
Richland 20's KFSP		$24.7 \pm 0.6$	$1.65 \pm 0.02$
Pall Mall KNFSP		15.6±0.2	$1.19 \pm 0.02$
Craven "A" KFHP		25.0±0.2	$1.66 \pm 0.02$
Pall Mall 25's KNFSP			$1.14 \pm 0.02$
Richland 20's Menthol 100's 100FMSP		16.3±0.3	0.92±0.02
Old Gold Lights 100s 100FSP	10.4±0.3	12.0±0.2	$0.92 \pm 0.02$ $0.90 \pm 0.02$
Newport Stripes 100FMHP	16.4±0.4	12.1±0.2	
Doral Full Flavor KFSP	16.5±0.4	16.2±0.3	1.02±0.03
Cambridge Full Flavor 100's 100FSP	16.6±0.4	17.3±0.3	$1.19 \pm 0.02$
Salem KFMSP	16.7±0.2	16.8±0.2	$1.16 \pm 0.02$
Tareyton 100's 100FSP	16.7±0.3	13.9±0.2	$1.02 \pm 0.02$
Benson & Hedges 100's 100FSP	16.8±0.3	16.9±0.3	$1.24 \pm 0.02$
Newport KFMHP	16.9±0.3	15.9±0.3	1.15±0.02
Kool Super Longs 100's 100FMSP	16.9±0.3	17.2±0.3	1.27±0.03
Raleigh KNFSP	16.9±0.4	$25.1 \pm 0.4$	$1.46 \pm 0.03$
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*Retested brand

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Richland 20's 100's 100FSP	17.0+0.3	17.8±0.3	1,30±0.02
Dunhill Menthol 100FMHP		14.8±0.2	1.26±0.02
Lucky Strike RNFSP		25.1±0.4	1.56±0.03
Pall Mali 100's 100FSP	172+02	17.5±0.2	$1.34 \pm 0.02$
Doral Full Flavor 100's 100FMSP		15.8±0.2	$1.13 \pm 0.02$
Dunhill International 100FHP		$16.9 \pm 0.2$	1.56±0.03
Marlboro 100's Red 100FHP		$16.8 \pm 0.3$	1.27±0.02
Century 25's (25) KFSP		15.1±0.3	$0.97 \pm 0.02$
Tall 120s 120FMSP		18.4±0.3	$1.57 \pm 0.03$
Richland 100's (25) 100FSP		18.2±0.2	$1.35 \pm 0.02$
Max 120s 120FMSP		16.9±0.4	1.32±0.03
Herbert Tareyton KNFSP		25.3±1.0	$1.57 \pm 0.03$
Newport KFMSP		16.9±0.2	$1.23 \pm 0.02$
Old Gold Straights KNFSP	17.7=0.5	26.0±0.7	1.77±0.03
Prince KFSP		16.5±0.2	$1.31 \pm 0.02$
Doral Full Flavor 100's 100FSP		16.2±0.3	1.11±0.03
Newport 25's KFMSP		17.1±0.2	1.24±0.02
Old Gold Filters KFSP	182405	17.2±0.3	1.25±0.02
		18.2±0.3	$1.40 \pm 0.03$
Spring 100's 100FMSP Max 120s 120FSP	19.4±0.4	17.2±0.2	1.32±0.02
		18.0±0.3	$1.37 \pm 0.02$
Newport 100's 100FMSP		12.1±0.2	$0.91 \pm 0.02$
More Lights 120s 120FSP  Camel Filters 100's 100FSP		17.3±0.2	$1.04 \pm 0.02$
		18.0±0.3	1.36±0.02
Rothmans KFHPWinston 100's 100FSP		17.1±0.2	1.05±0.01
Old Gold Filter 100's 100FSP		18.4±0.3	$1.39 \pm 0.02$
Tall 120s 120FSP		18.9±0.3	1.56±0.03
		18.7±0.3	1.42±0.03
Newport 100's 100FMHP		19.2±0.2	1.45±0.02
Newport 25's 100's 100FMSP		12.6±0.3	$0.99 \pm 0.02$
More Lights 120s 120FMSP	70.4±0.3	17.2±0.3	$1.14 \pm 0.02$
Century 25's 100's 100FSP	21 0 ± 0.2	17.2±0.2 17.0±0.2	$1.21 \pm 0.02$
More 120s 120FSP		17.0±0.2 17.2±0.3	$1.21 \pm 0.02$ $1.32 \pm 0.02$
More 120s 120FMSP		17.2±0.3	1.52 ± 0.02

# Appendix C

# **Butt Lengths**

Alpine KFMSP	Brand	Length - mm
Alpine Lights KFMSP	Alnine KFMSP	27,27.5,28,28.5
Alpine Lights KFMSP   33,34,35     Alpine Lights 100 100FMSP   33,39,40     American Filter King KFSP   26,27,28     American Lights KOSP   34,53,53,55     American Lights 100's 100FSP   34,35,33,34     American Lights 100's 100FSP   34,35     American Lights 100's 100FSP   34,35     Belair KFMSP   35,36     Belair 100's 100FMSP   39,40     Benson & Hedges KFHP   32,33,4     Benson & Hedges 100's 100FMP   34,35,36     Benson & Hedges 100's 100FMP   34,35,36     Benson & Hedges 100's 100FMP   34,35,36     Benson & Hedges 100's 100FMSP   34,35,36     Benson & Hedges 100's 100FMSP   34,35,36     Benson & Hedges Deluxe Ultra Lights 100's 100FMP   38,39,40     Benson & Hedges Deluxe Ultra Lights 100's 100FMP   38,39,40     Benson & Hedges Lights 100's 100FMP   38,39,40     Cambridge Full Flavor MFSP   32,33,34     Cambridge Full Flavor 100's 100FSP   38,39,40     Cambridge Lights KFMSP   32,33,34     Cambridge Lights KFMSP   33,34,35     Cambridge Lights KFMSP   33,39,40     Cambridge Lights KFMP   34,35     Cambridge Lights KFMP   34,35     Cambridge Lights KFMP   34,35     Cambridge Lights KFMP   34,35     Cambridge Ultra Low Tar 100 100FSP   38,39,40     Cambridge Lights 100's 100FSP   33,39,40     Cambridge Ultra Low Tar 100 100FSP   33,39,40     Cambridge Ultra L	Alnine 100 100FMSP	35.36
Alpine Lights 100 100FMSP 38,39,40 American Filter King KFSP 26,27,28 American Filter 100's 100FSP 34,535,35.5 American Lights KFSP 31,32,33,34 American Lights 100's 100FSP 31,32,33,34 American Lights 100's 100FSP 35,36 Belair KFMSP 35,36 Belair 100's 100FMSP 39,40 Benson & Hedges 100's 100FHP 34,35,36 Benson & Hedges 100's 100FHP 34,35,36 Benson & Hedges 100's 100FMIP 34,35,36 Benson & Hedges 100's 100FMSP 34,35,36 Benson & Hedges Deluxe Ultra Lights 100's 100FHP 38,39,40 Benson & Hedges Lights 100's 100FMP 38,39,40 Benson & Hedges Lights 100's 100FSP 38,39,40 Benson & Hedges Lights 100's 100FSP 38,39,40 Benson & Hedges Lights 100's 100FMSP 38,39,40 Benson & Hedges Lights 100's 100FSP 38,39,40 Benson & Hedges Lights 100's 100FMSP 38,39,40 Benson & Hedges Lights 100's 100FSP 38,39,40 Benson & Hedges Lights KFSP 32,33,34 Cambridge Full Flavor MFSP 38,39,40 Cambridge Lights 100's 100FSP 38,39,40 Cambridge Lights KFMSP 38,39,40 Cambridge Lights KFMSP 38,39,40 Cambridge Lights KFMSP 39,39,40 Cambridge Lights KFMSP 39,39,39,40 Carlton Ultra KFMP 39,39,5 Carlton Ultra KFMP 39,39,5 Carlton Ultra KFMP 39,39,5 Carlton 100FMP 37,38,39 Carlton 100's 100FMP 37,38,39	Alnine Lights KEMSP	
American Filter King KFSP	Alpine Lights 100 100FMSP	38.39.40
American Filter 100's 100FSP	American Eilter Ving KESP	26.27.28
American Lights 100's 100FSP 34,35  American Lights 100's 100FSP 34,35  Belair KRSP 35,36  Belair 100's 100FMSP 39,40  Benson & Hedges 100's 100FHP 32,33,34  Benson & Hedges 100's 100FHP 34,35,36  Benson & Hedges 100's 100FMHP 38,39,40  Benson & Hedges Deluxe Ultra Lights 100's 100FHP 38,39,40  Benson & Hedges Lights 100's 100FMP 38,39,40  Benson & Hedges Lights 100's 100FSP 38,39,40  Cambridge Full Flavor KFSP 22,29  Cambridge Full Flavor 100's 100FSP 33,39,40  Cambridge Lights 100's 100FSP 33,39,40  Cambridge Lights 100's 100FSP 33,39,40  Cambridge Lights 100's 100FSP 38,39,40  Cambridge Lights 100's 100FSP 39,39,40  Cambridge L	American Eilter 100's 100ECP	34.5.35.35.5
American Lights 100's 100FSP       34,35         Belair KFMSP       35,36         Belair 100's 100FMSP       39,40         Benson & Hedges 100's 100FHP       32,33,34         Benson & Hedges 100's 100FHP       34,35,36         Benson & Hedges 100's 100FMP       34,35,36         Benson & Hedges 100's 100FMSP       34,35,36         Benson & Hedges 10we Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Deluxe Ultra Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,29         Cambridge Full Flavor KFSP       38,39,40         Cambridge Full Flavor KFSP       38,39,40         Cambridge Full Flavor KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FMP       38,39,40         Cambridge Lights 100's 100FMP       38,39,40	American Lights KPCD	31.32.33.34
Belair KFMSP       35,36         Belair 100's 100FMSP       39,40         Benson & Hedges KFHP       32,33,34         Benson & Hedges 100's 100FMP       34,35,36         Benson & Hedges 100's 100FMP       34,35,36         Benson & Hedges 100's 100FMSP       34,35,36         Benson & Hedges 100's 100FMSP       34,35,36         Benson & Hedges Deluxe Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Deluxe Ultra Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights 100's 100FSP       33,34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40	American Lights 100's 100FSP	34.35
Belair 100's 100FMSP.       39,40         Benson & Hedges KFHP       32,33,34         Benson & Hedges 100's 100FMP       34,35,36         Benson & Hedges 100's 100FMFP       34,35,36         Benson & Hedges 100's 100FSP       34,35,36         Benson & Hedges 100's 100FSP       34,35,36         Benson & Hedges Deluxe Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FMFP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Cambridge Full Flavor KFSP       22,29         Cambridge Full Flavor KFSP       33,34,35         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMP       34,35         Cambridge Lights KFMP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40<	Polo: VEMCD	35.36
Benson & Hedges (10°s 100FHP)       34,35,36         Benson & Hedges 100°s 100FMFP       34,35,36         Benson & Hedges 100°s 100FSP       34,35,36         Benson & Hedges 100°s 100FSP       34,35,36         Benson & Hedges Deluxe Ultra Lights 100°s 100FHP       38,39,40         Benson & Hedges Deluxe Ultra Lights 100°s 100FMPP       38,39,40         Benson & Hedges Lights 100°s 100FHP       38,39,40         Benson & Hedges Lights 100°s 100FMP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor 100°s 100FSP       38,39,40         Cambridge Lights KFSP       38,39,40         Cambridge Lights KFSP       34,35         Cambridge Lights 100°s 100FSP       38,39,40         Camel Filte	Palair 100's 100FMSP	39.40
Benson & Hedges 100's 100FHP       34,35,36         Benson & Hedges 100's 100FMHP       34,35,36         Benson & Hedges 100's 100FMSP       34,35,36         Benson & Hedges 100's 100FMSP       34,35,36         Benson & Hedges Deluxe Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Deluxe Ultra Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Multifilter KFSP       38,39,40         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 10's 100FSP       38,39,40         Cambridge Full Flavor 10's 100FSP       38,39,40         Cambridge Lights KFMSP       33,34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMP       38,39,40         Cambridge Lights 100's 100FMP       38,39,40         Camel Filters KFHP       25,26,27         Camel Filters KFFP       23,34         Camel Filters KFSP       37,38	Pancan & Undres VEUD	32.33.34
Benson & Hedges 100's 100FMFP       34,35,36         Benson & Hedges 100's 100FSP       34,35,36         Benson & Hedges Delva Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Delvae Ultra Lights 100's 100FMPP       38,39,40         Benson & Hedges Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FMPP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFMSP       33,34,35         Cambridge Lights KFMSP       33,34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Camel Filters KFHP       25,26,27         Camel Filters KFHP	Denson & Heages KP111	34 35 36
Benson & Hedges 100's 100FNSP       34,35,36         Benson & Hedges Deluxe Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Deluxe Ultra Lights 100's 100FMHP       38,39,40         Benson & Hedges Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights (FMSP)       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel Filters KFSP       23         Camel Filters KFSP       23         Camel Filters KFSP       23         Camel Filters KFSP       38,39,40         Camel Filters KFSP       27,28,29         Camel Filters KFSP       38,39,40         Camel Lights 100	Denson & Hedges 100's 100FATT	24 35 36
Benson & Hedges 100's 100FMSP       34,35,36         Benson & Hedges Deluxe Ultra Lights 100's 100FHP       38,39,40         Benson & Hedges Deluxe Ultra Lights 100's 100FMHP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       33,34,35         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,6,27         Camel Filters KFSP       23         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFMP       29,30,31         Camel Lights KFMP       29,30,31         Camel Lights KFMP       29,30,31         Camel Lights 100's 100FSP       33,34,	Benson & Fledges 100's 100FPD	24 35 36
Benson & Hedges Deluxe Ultra Lights 100's 100FHP.       38,39,40         Benson & Hedges Lights 100's 100FHP.       38,39,40         Benson & Hedges Lights 100's 100FHP.       38,39,40         Benson & Hedges Lights 100's 100FMP.       38,39,40         Benson & Hedges Lights 100's 100FSP.       38,39,40         Benson & Hedges Multifilter KFSP.       38,39,40         Benson & Hedges Multifilter KFSP.       32,33,34         Cambridge Full Flavor KFSP.       28,29         Cambridge Full Flavor 100's 100FSP.       38,39,40         Cambridge Lights KFSP.       33,34,35         Cambridge Lights KFSP.       34,35         Cambridge Lights 100's 100FSP.       38,39,40         Cambridge Lights 100's 100FSP.       38,39,40         Cambridge Lights 100's 100FSP.       38,39,40         Cambridge Ultra Low Tar 100 100FSP.       38,39,40         Camel RNFSP.       23         Camel Filters KFHP.       25,26,27         Camel Filters KFHP.       25,26,27         Camel Filters KFSP.       27,28,29         Camel Lights KFHP.       29,30,31         Camel Lights 100's 100FSP.       34,35,         Camel Lights 100's 100FSP.       33,34,35         Camel Lights 100's 100FSP.       33,34,35         Capri 120's 120FM	Denson & Fledges 100's 100FMSD	34 35 36
Benson & Hedges Deluxe Ultra Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       33,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel Filters KFFP       23         Camel Filters KFFP       23         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39,5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,23,40         Carl	Benson & Hedges 100 s 100FNSF	39 30 An
Benson & Hedges Lights 100's 100FHP       38,39,40         Benson & Hedges Lights 100's 100FMP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Lights 100's 100FSP       38,39,40         Camel Filters KFSP       23         Camel Filters KFSP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39.5         Carlton WFMSP       32,33,34,35         Carlton WFMSP		
Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters 100's 100FSP       34,35,         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FHP       39,39,5         Carlton WFSP       32,33,44         Carlton KFSP       32,33,34,35         Carlton WFMSP       32,33,34,35         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMP       37,38,39		
Benson & Hedges Lights 100's 100FSP       38,39,40         Benson & Hedges Multifilter KFSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel Filters KFHP       22         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Lights KFHP       29,30,31         Camel Lights KFSP       34,35,         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39.5         Capri 120's 120FMP       39,39.5         Carlton KFSP       32,23,         Carlton KFMSP       32,33,4,35         Carlton KFMSP       32,33,34,35         Carlton 100's 100FMP       38,39,40         Carlton 100's 100FMP       37,38,39         Ca	Benson & Hedges Lights 100's 100FFF	20 20 40
Benson & Hedges Lights 100's 100FMSP       38,39,40         Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39.5         Capri 120's 120FMP       39,39.5         Carlton KFSP       32,23,3         Carlton KFMSP       32,33,34,35         Carlton 8FMF       32,33,34,35         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMP       37,38,39          Carlton 100's 100FMP       37,38,39 <td< td=""><td>Benson &amp; Hedges Lights 100's 100FMHP</td><td>20,20,40</td></td<>	Benson & Hedges Lights 100's 100FMHP	20,20,40
Benson & Hedges Multifilter KFSP       32,33,34         Cambridge Full Flavor KFSP       28,29         Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFSP       23         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39.5         Carlton Ultra KFHP       39,39.5         Carlton KFSP       32,33,34,35         Carlton KFMSP       32,33,34,35         Carlton 10's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39          Carlton 100's 100FMP       37,38,39	Benson & Hedges Lights 100's 100FSP	
Cambridge Full Flavor 100's 100FSP       28,29         Cambridge Lights KFSP       33,34,35         Cambridge Lights KFSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39,5         Carlton Ultra KFHP       39,39,5         Carlton KFSP       32,33,34,35         Carlton KFSP       32,33,34,35         Carlton 8 KFMP       32,33,34,35         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMP       37,38,39	Benson & Hedges Lights 100's 100FMSP	
Cambridge Full Flavor 100's 100FSP       38,39,40         Cambridge Lights KFSP       33,34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters KFSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights NFSP       33,34,35         Camel Lights 100's 100FSP       33,34,35         Camel Lights 100's 100FSP       33,34,35         Camel Lights 100's 100FMP       34,35,36         Capri 100FMP       34,35,36         Capri 120's 120FHP       39,39,5         Carlton Ultra KFHP       39,39,5         Carlton KFSP       32,33,40         Carlton KFMSP       32,33,34,35         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMP       37,38,39          Carlton 100's 100FMP       37,38,39	Benson & Hedges Multifilter KFSP	34,33,3 <del>4</del>
Cambridge Lights KFSP       33,34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 100FMP       34,35,36         Capri 120's 120FHP       39,39.5         Carlton Ultra KFHP       39,39.5         Carlton KFSP       32,33,34,35         Carlton KFMSP       32,33,34,35         Carlton Sa KFHP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39	Cambridge Full Flavor KFSP	28,29
Cambridge Lights KFMSP       34,35         Cambridge Lights 100's 100FSP       38,39,40         Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 100FMP       34,35,36         Capri 120's 120FHP       39,39.5         Carlton Ultra KFHP       39,39.5         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39          Carlton 100's 100FMP       37,38,39	Cambridge Full Flavor 100's 100FSP	38,39,40
Cambridge Lights 100's 100FSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 120's 120FHP       39,39,5         Capri 120's 120FMHP       39,39,5         Carlton Ultra KFHP       39,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton S KFHP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMHP       37,38,39          Carlton 100's 100FMHP       37,38,39	Cambridge Lights KFSP	33,34,33
Cambridge Lights 100's 100FMSP       38,39,40         Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 100FMHP       34,35,36         Capri 120's 120FMP       39,39,5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 100's 100FMP       32,33,34,35         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMP       37,38,39	Cambridge Lights KFMSP	
Cambridge Ultra Low Tar 100 100FSP       38,39,40         Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters L00's 100FSP       27,28,29         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39	Cambridge Lights 100's 100FSP	38,39,40
Camel RNFSP       23         Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 100FMP       39,39.5         Capri 120's 120FMP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39         Carlton 100's 100FMHP       37,38,39	Cambridge Lights 100's 100FMSP	
Camel Filters KFHP       25,26,27         Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FMP       34,35,36         Capri 120's 120FMP       39,39.5         Capri 120's 120FMP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39	Cambridge Ultra Low Tar 100 100FSP	38,39,40
Camel Filters KFSP       27,28,29         Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 120's 120FHP       39,39.5         Capri 120's 120FMP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMP       37,38,39	Camel RNFSP	23
Camel Filters 100's 100FSP       34,35,         Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 120's 120FHP       39,39,5         Capri 120's 120FMHP       39,39,5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,34,35         Carlton 83 KFHP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Camel Filters KFHP	25,26,27
Camel Lights KFHP       29,30,31         Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 120's 120FHP       39,39,5         Capri 120's 120FMHP       39,39,5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Camel Filters KFSP	27,28,29
Camel Lights KFSP       33,34,35         Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Camel Filters 100's 100FSP	34,35,
Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 100FMHP       34,35,36         Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,3         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Camel Lights KFHP	29,30,31
Camel Lights 100's 100FSP       37,38,39         Capri 100FHP       34,35,36         Capri 100FMHP       34,35,36         Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,3         Carlton KFMSP       32,33,34,35         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Camel Lights KFSP	33,34,35
Capri 100FMHP       34,35,36         Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,3         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Camel Lights 100's 100FSP	37,38,39
Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Capri 100FHP	34,35,36
Capri 120's 120FHP       39,39.5         Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Capri 100FMHP	34,35,36
Capri 120's 120FMHP       39,39.5         Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Capri 120's 120FHP	39,39.5
Carlton Ultra KFHP       38,39,40         Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Capri 120's 120FMHP	39,39.5
Carlton KFSP       32,33,         Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Carlton Ultra KFHP	38,39,40
Carlton KFMSP       32,33,34,35         Carlton 83 KFHP       32,33,34         Carlton 100's 100FHP       37,38,39         Carlton 100's 100FMHP       37,38,39	Carlton KFSP	32,33,
Carlton 83 KFHP	Carlton KFMSP	32,33,34,35
Carlton 100's 100FHP	Carlton 83 KFHP	32,33,34
Carlton 100's 100FMHP	Carlton 100's 100FHP	37,38,39
Carlton 100's 100FSP	Carlton 100's 100FMHP	37,38,39
	Carlton 100's 100FSP	34,35,36,37

# **Butt Lengths**

Carlton 100's 100FMSP       34,35,36         Carlton 120's 120FSP       38,39         Carlton 120's 120FMSP       38,39         Century 25's (25) KFSP       29,30,31         Century 25's 100's 100FSP       38,39         Century 25's Lights (25) KFSP       29,30,31,34,35         Century 25's Lights 100's 100FSP       37,38,39
Carlton 120's 120FSP
Carlton 120's 120FMSP       38,39         Century 25's (25) KFSP       29,30,31         Century 25's 100's 100FSP       38,39         Century 25's Lights (25) KFSP       29,30,31,34,35         Century 25's Lights 100's 100FSP       37,38,39
Century 25's (25) KFSP       29,30,31         Century 25's 100's 100FSP       38,39         Century 25's Lights (25) KFSP       29,30,31,34,35         Century 25's Lights 100's 100FSP       37,38,39
Century 25's Lights (25) KFSP
Century 25's Lights (25) KFSP
Century 25's Lights 100's 100FSP
Contail and a factor and a contain a
Century 25's Lights 100's 100FMSP
Chesterfield RNFSP23
Chesterfield KNFSP23
Chesterfield Lights KFSP
Chesterfield Lights 100 100FSP
Doral Full Flavor KFSP
Doral Full Flavor KFMSP27,28,29
Doral Full Flavor 100's 100FSP
Doral Full Flavor 100's 100FMSP
Doral Lights KFSP
Doral Menthol Lights KFMSP
Doral Lights 100's 100FSP
Doral Menthol Lights 100's 100FMSP37,38
Doral Ultra Lights 100's 100FSP
English Ovals KNFHP
Eve Slim Lights 100's 100FHP
Eve Slim Lights 100's 100FMHP
Eve Lights 120's 120FHP
Eve Lights 120's 120FMHP
Eve Ultra Lights 120's 120FHP
Eve Ultra Lights 120's 120FMHP38
Falcon Lights KFSP
Falcon Lights KFMSP
Falcon Lights 100's 100FSP
Falcon Lights 100's 100FMSP
Harley Davidson KFSP
Harley Davidson Krst
Herbert Tareyton KNFSP23 Kent Golden Lights KFHP32,33,34
Kent Golden Lights Kriff
Kent Golden Lights KFSP
Kent Golden Lights KFMSP
Kent Golden Lights 100s 100FHP
Kent Golden Lights 100s 100FSP
Kent Golden Lights 100s 100FMSP
Kent KFHP
Kent KFSP
Kent 100s 100FSP
Kent 100s 100FMSP
Kent III KFSP
Kent III 100s 100FHP
Kent III 100s 100FSP35,35.5,36,37,38

# **Butt Lengths**

Brand	<u> Length - mm</u>
Kool RNFMSP	23
Kool Super Longs 100's 100FMSP	
Kool KFMSP	
Kool Super Longs 100's 100FMSP	
Kool Lights KFMSP	
Kool Lights 100's 100FMSP	
Kool Milds KFMHP	
Kool Milds KFMSP	
Kool Milds 100's 100FMSP	· · · · · · · · · · · · · · · · · · ·
Kool Ultra KFMSP	
Kool Ultra 100's 100FMSP	
L & M KFHP	
L & M KFSP.	
L & M Super 100 100FSP	
L & M Long Lights 100FSP	
L & M 30's Lights 100's 100FSP	
Lark KFSP	
Lark 100FSP	
Lark Lights KFSP	
Lark Light 100's 100FSP	
Lucky Strike RNFSP	
Lucky Strike KFHP	32,32,5,33,33,5,34,34,5
Lucky Strike KFSP	
Lucky Strike Filters 100's 100FSP	
Lucky Strike Lights KFSP	33,33.5,34,34.5
Lucky Strike Lights 100's 100FSP	34,35,36
Magna KFHP	
Magna KFSP	27,27,5,28
Magna Lites KFSP	33,33.5,34.5,35
Malibu Filters KFSP	
Malibu Menthol KFMSP	
Malibu 100's 100FSP	
Malibu Menthol 100's 100FMSP	
Malibu Lights KFSP	
Malibu Lights 100's 100FSP	34,35,36
Marlboro KFHP	
Marlboro KFSP	
Marlboro KFMSP	
Marlboro 100's 100FHP	
Marlboro 100's 100FSP	
Mariboro 25's KFSP	
Marlboro Lights KFHP	
Marlboro Lights KFMHP	
Mariboro Lights KFSP	34.34.5.35
Mariboro Lights 100's 100FHP	38,39.40
Mariboro Lights 100's 100FMHP	
Marlboro Lights 100's 100FSP	
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# **Butt Lengths**

Brand	Length - mm
Marlboro Lights 25's KFSP	33,33,5,34,34.5,35
Marlboro 100's Red 100FHP	34,35
Marlboro 100's Red 100FSP	
Max 120s 120FSP	
Max 120s 120FMSP	37,38,39
Merit KFHP	34,35,36
Merit KFSP	
Merit KFMSP	
Merit 100's 100FSP	38.38.5.39.39.5.40
Merit 100's 100FMSP	38.38.5.39.39.5.40
Merit Ultra Lights KFHP	34.5.35.35.5.36
Merit Ultra Lights KFSP	35.35.5.36
Merit Ultra Lights KFMSP	34 34 5 35 35 5 36
Merit Ultra Lights 100's 100FHP.	38 39
Merit Ultra Lights 100's 100FSP	
Merit Ultra Lights 100's 100FMSP	38 39 40
More 120s 120FSP	41 42 43
More 120s 120FMSP	
More Lights 100s 100FHP	27 28 20
MOTE Lights 1005 100FHF	25 26 27 29 20 40
More Lights 100s 100FMHP	41 A2 A2 5 A2
More Lights 120s 120FSP	A1 A2 A2
More Lights 120s 120FMSP	41,44,43
More White Lights 120s 120FSP	41,41.5,42,42.5 41,41.5,42,42.5
More White Lights 120s 120FMSP	24 29 20
Newport KFMHP	
Newport KFMSP	
Newport 100's 100FMHP	
Newport 100's 100FMSP	
Newport 25's KFMSP	
Newport 25's 100's 100FMSP	
Newport Lights KFMHP	32,33,34
Newport Lights KFMSP	33,34,34.5,35,36,3
Newport Lights 100's 100FMHP	35,36,37
Newport Lights 100's 100FMSP	34,35,36,37
Newport Stripes 100FHP	35,36,37
Newport Stripes 100FMHP	35,36,37,38
Newport Stripes Slim Lights 100FMHP	37,38,39
Now KFHP	34,35,36
Now KFSP	33,33.5,34,34.5
Now KFMSP.	34,34.5,35
Now 100s 100FHP	37,38,38.5,39
Now 100s 100FSP	37,37.5,38,39
Now 100s 100FMSP	37,38,39
Old Gold Straights KNFSP	23
Old Gold Filters KFSP	28,29
Old Gold Filter 100's 100FSP	35,36,37,38
Old Gold Lights KFSP	34 35

# **Butt Lengths**

Brand	Length - mm
Old Gold Lights 100s 100FSP	25 26 27
Pall Mall KNFSP	
Pall Mall 25's KNFSP	
Pall Mall 100's 100FSP	34 35 36
Pall Mall Lights 100's 100FSP	
Pall Mall Red Filters KFSP	
Pall Mall Red Filters 100's 100FSP	
Pall Mall Red Lights KFSP	33,33.3,34 24.25.26
Pall Mall Red Lights 100's 100FSP	34,33,30
Parliament Lights KFHP	
Parliament Lights KFSP	32,33,34
Parliament Lights 100's 100FSP	
Philip Morris RNFSP	23
Philip Morris Commander KNFSP	23
Philip Morris International 100FHP	34.5,35,35.5,36
Philip Morris International 100FMHP	
Players RNFHP	23
Players KFHP	34,35,35.5
Players KFMHP	34,35
Players 100's 100FHP	39
Players 100's 100FMHP	
Players Lights 25's KFSP	33,34,35
Players Lights 25's KFMSP	33,34,35
Players 25's Lights 100's 100FSP	38,39,40
Players 25's Lights 100's 100FMSP	39,40
Prince KFSP	
Prince Lights KFSP	27
Pyramid KNFSP	23
Pyramid Lights KFSP	33.34
Pyramid Lights 100's 100FSP	38.39.39.5.40
Pyramid Ultra Lights 100's 100FSP	38.38.5
Raleigh KNFSP	23
Raleigh KFSP	29 30
Raleigh 100's 100FSP	35 36
Dalaiah Liaha WECD	35 36
Raleigh Lights KFSP	20.40
Raleigh Lights 100's 100FSP	20.20
Richland 20's KFSP	
Richland 20's KFMSP	29,30
Richland 20's 100's 100FSP	
Richland 20's Menthol 100's 100FMSP	
Richland 20's Lights KFSP	34,33
Richland 20's Lights 100's 100FSP	38,39,39.5,40
Richland (25) KFSP	29,30
Richland (25) KFMSP	28,29,29.5
Richland 100's (25) 100FSP	34,34.5,35,35.5,36
Richland Lights (25) KFSP	34,34.5,35,35.5
Richland Lights (25) 100's 100FSP	39,39.5

# **Butt Lengths**

<u>Brand</u>	Length - mm
Ritz 100 100FHP	37.38.39
Ritz 100 100FMHP	37.38.39
Salem KFMSP	28.29
Salem 100's 100FMSP	34 34 5 35 35.5
Salem Lights KFMSP	33 34 35
Salem Lights 100's 100FMHP	36.5.37.37.5.38.38.5.39
Salem Lights 100's 100FMSP	37 5 38 38 5
Salem Slim Lights 100's 100FMHP	37 37 5 38
Salem Ultra Lights KFMSP	33 34 35
Salem Ultra Lights Arividi	37 5 38 38 5
Salem Ultra Lights 100's 100FMSP	32 32 5 30 30 5
Saratoga 120's 120FHPSaratoga 120's 120FMHP	32 32 5 30 30 5
Saratoga 120's 120FWHP	25 26 27
Satin 100FSP	25 26 27
Satin 100FMSP	27 5 28 28 5
Savvy 100's Lights 100FSP	27 27 5 20 5 20
Savvy 100's Lights 100FMSP	
Savvy Ultra Lights 100's 100FSP	30,57,50,35, <del>70</del>
Silva Thins Filters 100FHP	38.3,39,39.3,40
Silva Thins Menthol 100FMHP	38,39,40
Spring 100's 100FMSP	35,36,36.5,37,38
Tall 120s 120FSP	37,37,5,38,38.5,39
Tall 120s 120FMSP	38,39
Tareyton KFSP	27,28
Tareyton 100's 100FSP	34,35,36
Tareyton Lights KFSP	34,35,36
Tareyton Long Lights 100FSP	34,35,35.5,36,37
Triumph KFSP	35,35.5,36
Triumph KFMSP	34,35,35.5,36
Triumph 100s 100FSP	35,36,36.5,37,38
Triumph 100s 100FMSP	35,36,37,38
True KFSP	32,32.5,33,33.5,34
True KFMSP	32,32.5,33,33.5,34
True 100's 100FSP	36,36.5,37
True 100's 100FMSP	36,37
Vantage KFSP	32,33,34
Vantage KFMSP	32.5,33,34
Vantage 100s 100FSP	37,38
Vantage Menthol 100s 100FMSP	38,39
Vantage Excell 100's 100FSP	38.38.5
Vantage Ultra Lights KFSP	
Vantage Ultra Lights 100s 100FSP	37,37,5,38,38,5,39
Viceroy KFSP	29.30
Viceroy Super Long 100's 100FSP	35.36
Viceroy Lights KFSP	35.36
Viceroy Lights 100's 100FSP	39.40
Viceroy Lights 100 s 100 FSP	34.535.35.5
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# **Butt Lengths**

Brand	Length - mm
Virginia Slims Lights 100FHP	38,39,39.5,40
Virginia Slims Lights 100FMHP	38.5,39,39.5,40
Virginia Slims Lights 120's 120FHP	38,39,39.5,40
Virginia Slims Lights 120's 120FMHP	38,39,39.5,40
Virginia Slims Ultra Lights 100 100FHP	38,38.5,39,39.5,40
Virginia Slims Ultra Lights 100 100FMHP	38,38.5,39,39.5,40
Winston KFHP	25,26
Winston KFSP	
Winston 100's 100FSP	
Winston Lights KFHP	
Winston Lights KFSP	34,34.5,35
Winston Lights 100's 100FHP	
Winston Lights 100's 100FSP	
Winston Ultra Lights KFSP	33.5,34,34.5
Winston Ultra Lights 100's 100FSP	37.5,37.5,38,38.5,39
Craven "A" KFHP	
Craven "A" Filter Standard Size RFHP	
Dunhill International 100FHP	30.5,31,31.5,32
Dunhill Menthol 100FMHP	
Dunhill Menthol Mild 100FMHP	
Dunhill International Superior Mild 100FHP	
Rothmans KFHP	
Rothmans Special Mild KFHP	
St. Moritz Filter 100FSP	35,35.5,36
St. Moritz Menthol 100FMSP	